aeromet

4-a/4-b

aeromet inc.

P.O. BOX FF NORMAN, OKLAHOMA 73070
405 329-2424

MONTHLY PROGRESS REPORT NO. 10

for the period December 1-31, 1976

to

ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

1860 Lincoln St., Suite 900

Denver, CO 80203

Contract No. 68-01-1946

by

Aeromet, Inc.

Box FF

Norman, OK 73070

Utah U-a/U-b Tract

1.0 INTRODUCTION

Low level temperature and wind data were collected for December, 1976 at Casper, Wyoming; the Shell Oil Co. Colorado C-b Tract 25 miles west of Rio Blanco, Colorado; Craig, Colorado; Escalante and Hanksville, Utah; Rock Springs, Wyoming; and the U-a/U-b Tract 5 miles south of Bonanza, Utah. The data collection was made using a 30 gm helium filled pilot balloon with a temperature sonde attached, a single theodolite and a TSR-2 receiver/recorder twice a day every other day. The observations were made ½ hour after sunrise and 1400L.

The pilot balloon had an ascent rate of 500 ft/min and it was tracked by a single theodolite for 12 minutes with the azimuth and elevation angles recorded every 30 seconds on a cassette tape recorder. The tape was transcribed to a pilot balloon form after the observation.

The temperature sonde operated at 403 MHz and the signal was received by a ground plane antenna at least 24 ft. AGL which was attached to the Aeromet, Inc. TSR-2 receiver/recorder. The TSR-2 receiver has a built-in Rustrak strip chart recorder and the temperature was recorded within the range from -50°C to +50°C. A baseline temperature calibration was performed with each T-Sonde by the adjustment of the recorded temperature to match the thermometer measured temperature next to the transmitting sonde. Once the calibration check was finished the balloon was released with the sonde attached and the temperature was recorded for at least 20 minutes. At the completion of each observation the data were mailed to Aeromet, Inc.

The Monthly Progress Report is divided into seven parts, one corresponding to each of the seven field sites. The collected temperature and wind data are accurate and have not been edited unless otherwise stated in the Pilot Balloon Summary section. However, the obvious errors sometimes found in the recorded azimuth and elevation angles are corrected without mention. For example, the sequence of azimuth angles . . . 76.6, 75.3, 47.8, 73.8 . . . can be corrected without ambiguity. The more ambiguous errors are brought to the attention of the reader if editing has been performed, otherwise, the data are left as recorded and the filtering is left to the individual user. An example is the wind profile for Hanksville on 06/29/76 at 1300 MST found in the Monthly Progress Report No. 4. The azimuth angles starting 30 seconds after the launch and incremented by the same are as follows . . . 109.0, 110.0, 110.0, 281.0, 280.0, 282.0 . . . , while the corresponding elevation angles are as follows, . . . 60.0, 57.6, 58.7, 58.6, 52.7, 44.3 . . . . The wind speed and direction change dramatically over the interval as can be seen in the report since these data were not edited.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII
1860 LINCOLN STREET
DENVER, COLORADO 80203

March 11, 1977

Mr. Pete Rutledge
Area Oil Shale Supervisor
Mesa Federal Savings & Loan
131 North 6th, Suite 300
Grand Junction, CO 81501

Dear Pete:

Enclosed are copies of progress report #10 for our Aeromet contract regarding data collection during December. The contract as it stands now has been modified to extend at least to August 1, 1977. We have additional funds budgeted to carry the program beyond that date, however. As in the past, by copy of this memo, I am transmitting copies to Rees Madsen and George Fosdick for their respective tracts.

Data collection was poor for C-b again in November - 28% recovery of temperature data and 16% recovery of wind data. However, a change in the observer and relocation of the site to the PL Ranch should result in better data collection represented in the next report.

Data collection for the third month of operation on UaUb was excellent. Temperature and wind data collection was 97%.

Sincerely,

Terry L. Thoem
Office of Energy Activities

cc: George Fosdick
Rees Madsen

2.0 DATA SUMMARY

2.1 Utah U-a/U-b Tract Field Summary

Mo major problems were experienced during the month of December. The reader should make note of the consistent northeast wind found at approximately 500 m AGL. This phenomenon is found in wind data for previous months. It is felt to be caused by terrain effects.

The observer attempted 100% of the scheduled pilot balloon launches resulting in 97% recovery of the temperature and wind data. The 3% loss in data resulted from equipment malfunctions.

2.2 Mixing Layer Height

The average mixing layer height was computed for the morning and afternoon based on the morning and 1400L temperature soundings. The balloon release ½ hour after sunrise is near enough to the minimum temperature to assume the correctness of the calculated mixing layer heights. The afternoon balloon release is generally not at the time of maximum heating and the user of the mixing layer height data must be aware that minor changes in the calculated values can be expected. Without equipping the field sites with minimum/maximum thermometers the extrapolation of the afternoon data can not be justified in establishing a data base for statistical analysis. The approximation of the afternoon maximum temperature would be a "calculated guess" for there are: 1) local effects which are to be determined and would be filtered out with extrapolation, 2) mountain effects which alter the lower 1500m (e.g. downslope effects), and 3) meteorological effects which can alter the expected change in the sounding (e.g. advection, moisture, etc.).

It is felt that to better define the mixing layer height that a variety of "heat island" effects should be viewed. The rigorous method would be to define 15 "heat island" effects ranging from 0 to 14°C and let the user decide which would best serve his needs. However, for these analysis 0°, +5° and +10° "heat island" effects are calculated and listed for the morning and afternoon soundings in the table Average Mixing Layer Height.

The symbol N/D means that no mixing layer height was defined and sfc is the abbreviation for surface.

2.3 Stability and Inversion Classification

The temperature and wind data were edited to remove data felt to cause anomalous results in the stability and inversion classification schemes. Only the stations listed prior to the table classifying the inversions were used in the calculations.

3.0 DATA PROCESSING

3.1 Printed and Plotted Output

Wind speeds and directions are computed from the azimuth and elevation angles measured while tracking the balloon with the theodolite. The wind speed and direction are plotted versus height and printed out at 30 second intervals. The printed output includes the AGL and MSL height of the calculated wind value and the orthognal components of the wind. The wind profile is also punched on computer cards at 30 second intervals.

The temperature data are processed and plotted with the temperature and the lapse rate per 300 meters versus height at 15 second intervals. Tic marks are placed on the temperature plot at significant levels. A solid line to the right side of the plot indicates the data for that layer are interpolated temperature values. The temperature data are also printed out and punched on cards. The asterisk beside a height value indicates a significant level while a "?" indicates interpolated data.

The temperature data are also processed to produce for each site a monthly summary of inversion layers and lapse rates within the inversions and from the inversion base to the surface by means of the Holzworth classification scheme for inversions (Holzworth, G.C., 1974: "Climatological Data on Atmospheric Stability in the United States" Paper presented at the American Meteorological Society Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974. Santa Barbara, California.)

The temperature and wind data are processed together to produce for each site a monthly average bivariate frequency distribution of wind direction versus wind speed represented in the 500m layer adjacent to the ground. The distribution is presented by the six Pasquill stability classes (A-F) and a summary independent of stability. If the $\Delta T/100m$ criterion is met but the wind speed criterion is not met, then the

STABILITY CLASS	ΔT (°C/100m)	WIND SPEED
A	<-1.9	≤2
B	-1.9 - -1.7	≤5
C	-1.7 - -1.5	≤6
D	-1.5 - -0.5	ALL SPEEDS
E	-0.5 - 1.5	≤5
F	>1.5	≤3

wind data are checked against the criterion for the next stability class, always cascading to the D stability class. Once the wind speed criterion is met the data are classified under the new stability class even though now the lapse rate exceeds the class criterion. For example,

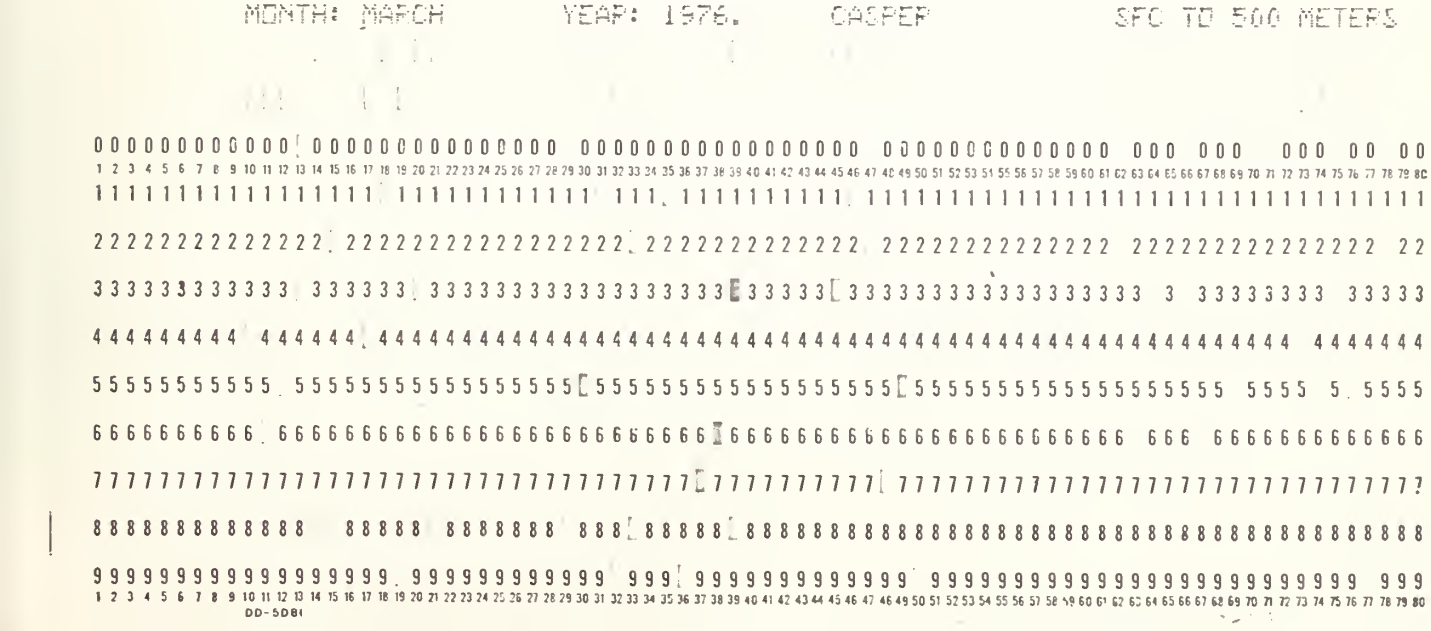
if the $\Delta T/100m$ value is 1.7 and the wind speed is 7 m/s, the lapse rate criterion is met for the stability class F, however the wind speed criterion is exceeded. The wind speed is greater than the 5 m/s maximum limit for class E but falls within the criterion of class D, which includes all wind speeds. As a result the observational data with a ΔT value of 1.7°C/100 m and a wind speed value of 7 m/s are classified under stability class D, not class F.

The data are also punched on computer cards in a format compatible with the STAR PROGRAM of the National Climatic Center, NOAA, U.S. Department of Commerce.

3.2 Punched Output

The punched temperature and wind data for each observation are categorized into four groups, each separated by a blank card. The first group begins with a header card listing the station name (3A4), the station elevation in meters (I4), the month, date and year (I6), the observation time (I4), the time zone (A3), the balloon ascent rate in feet per minute (I3), the sampling interval in seconds (I2), the temperature error in °C (F5.1), the T-Sonde I.D. number (I5) and the surface wind speed in kts and direction (2F6.1). A surface wind speed of 180.0 KTS indicates missing surface wind data. The series of cards prior to the first blank card include on each card the elapse time in minutes (2X,F5.1), the height of the balloon in meters AGL (4X,F5.0), the height of the balloon in meters MSL(4X,F5.0), the temperature in °C (4X,F6.2), the change in temperature between standard or significant levels (2X,F6.2), the lapse rate per 300m (2X,F6.2), the difference in the lapse rate per 300m and the dry adiabatic lapse rate per 300m (2X,F6.2), the wind speed in m/s if known (4X,F5.1), and the wind direction if known (3X,F5.0). The cards following the first blank card include on each card the elapse time in minutes (2X,F5.1), the height in meters AGL (4X,F5.0), the height in meters MSL (4X,F5.0), the u-component of the wind in m/s (4X,F6.1), the v-component of the wind in m/s (6X,F6.1), the wind speed in m/s (7X,F5.1), the wind direction (6X,F5.0), the elevation angle in degrees (F5.1) and the azimuth angle in degrees (F5.1). The cards after the second blank card include a header card like before and a series of cards with four groups of the following on each card; the height in meters AGL (F6.1), the temperature in °C (F6.2), the lapse rate °C/300m (F6.2) and a blank space (1X). The cards after the third blank card include a header card the same as described earlier, eight cards with the original digitized temperature data and a flag to indicate interpolated data (20(F3.1,I1)), five cards with the elevation angle in degrees (16F5.1), and five cards with the azimuth angle in degrees (16F5.1). The temperature data are in degrees Celsius and have 50°C added to each value. An elevation angle of 180° indicates a missing azimuth and elevation angle value.

The punched output from the bivariate frequency distribution calculations include a header card as illustrated below,



and the punched distribution data for each wind direction under each stability class in agreement with the "star" output. The stability classes are number coded as follows:

STABILITY CLASS	NUMBER CODE
A	1
B	2
C	3
D	4
E	5
F	6
Independent of Stability	7

The station I.D. numbers are as follows:

STATION	I.D. NUMBER
Casper, Wyoming	1
Colorado C-b Tract	2
Craig, Colorado	3
Escalante, Utah	4
Hanksville, Utah	5
Rock Springs, Wyoming	6
Utah U-a/U-b Tract	7

The month and season number codes are as follows:

MONTH	1-12
SEASON	13 = DJF
	14 = MAM
	15 = JJA
	16 = SON
ANNUAL	17

PILOT BALLOON SUMMARY
Utah U-a/U-b Tract
December, 1976

December 2	0718	
	1354	
December 4	0723	
	1359	
December 6	0717	
	1356	Temperature values were interpolated over the interval from 3 1/4 to 11 3/4 minutes.
December 8	0727	
	1355	
December 10	0724	
	1352	
December 12	0726	Temperature values were interpolated over the interval from 2 1/2 to 10 1/4 minutes. Light wind speeds were the cause of the large variation in wind directions.
	1350	
December 14	0725	Temperature values were interpolated over the interval from 7 to 11 1/2 minutes.
	1357	
December 16	0730	
	1402	Temperature values were interpolated over the interval from 8 to 13 1/2 minutes.

PILOT BALLOON SUMMARY
Utah U-a/U-b Tract
December, 1976

December 18	0726	
	1355	
December 20	0727	Temperature values were interpolated over the interval from 6 1/4 to 17 minutes.
	1350	
December 22	0729	
	1351	
December 24	0735	Balloon was lost in the clouds after 9 minutes. No temperature after about 2 minutes due to difficulty with sonde.
	1354	
December 26	0733	
	1351	
December 28	0734	
	1400	
December 30	0736	
	1354	No wind data due to difficulty with tape recorder.

AVERAGE MIXING LAYER HEIGHT

Utah U-a/U-b Tract

December, 1976

HEIGHTS IN METERS

	MORNING			AFTERNOON		
DATE	0°	+5°	+10°	0°	+5°	+10°
2	sfc	100m	200m	50m	600m	850m
4	sfc	150m	300m	250m	700m	1150m
6	50m	250m	1000m	500m	1450m	2650m
8	sfc	150m	250m	100m	650m	950m
10	sfc	50m	500m	600m	1650m	1950m
12	sfc	150m	250m	300m	600m	1000m
14	sfc	100m	200m	250m	750m	1400m
16	sfc	100m	200m	100m	500m	750m
18	sfc	50m	200m	sfc	550m	650m
20	sfc	100m	250m	150m	650m	1000m
22	sfc	150m	250m	500m	750m	1500m
24	sfc	250m		sfc	500m	2950m
26	sfc	50m	150m	50m	600m	1000m
28	sfc	50m	150m	200m	600m	1900m
30	sfc	150m	200m	500m	1250m	2050m

CLOUD COVER AND SIGNIFICANT WEATHER
Utah U-a/U-b Tract
December, 1976

DATE	MORNING	AFTERNOON
2	scattered	scattered
4	overcast, cirrus	overcast, cirrus
6	broken	clear
8	scattered	clear
10	scattered	clear
12	clear	clear
14	broken	clear
16	broken	broken
18	scattered	scattered
20	clear	clear
22	overcast, cirrus	overcast, cirrus
24	overcast	scattered
26	scattered	scattered
28	clear	clear
30	overcast	overcast

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3455

ATE 12/02/76 TIME 07:18MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	1448.	1.19	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3452

ATE 12/02/76 TIME 13:54MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	1053.	0.24	-1.47

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3450

ATE 12/04/76 TIME 07:23MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	702.	1.28	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3456

ATE 12/04/76 TIME 13:59MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
259.	1135.	0.16	-1.06

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3454

ATE 12/06/76 TIME 07:17MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	724.	0.41	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3719

ATE 12/06/76 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	38.	0.50	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3712

ATE 12/08/76 TIME 07:27MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	1257.	0.84	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3714

ATE 12/08/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
114.	991.	0.17	-0.65

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3716

ATE 12/10/76 TIME 07:24MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	229.	3.16	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3718

ATE 12/10/76 TIME 13:52MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
285.	323.	0.24	-1.42

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3713

ATE 12/12/76 TIME 07:25MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	1600.	0.80	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3715

ATE 12/12/76 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
142.	907.	0.42	-1.86

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3717

TE 12/14/76 TIME 07:25MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	1029.	1.16	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3705

TE 12/14/76 TIME 13:57MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	1042.	0.15	-2.87

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3707

TE 12/16/76 TIME 07:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	1502.	1.02	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3709

TE 12/16/76 TIME 14:02MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	838.	0.40	-0.98

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3711

TE 12/18/76 TIME 07:26MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	724.	2.38	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3710

TE 12/18/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	811.	0.52	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3708

TE 12/20/76 TIME 07:27MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	2000.	0.65	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3706

TE 12/20/76 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	1069.	0.10	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3704

TE 12/22/76 TIME 07:29MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	1638.	0.86	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3696

E 12/22/76 TIME 13:51MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
143.	181.	0.26	-1.94

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3698

E 12/24/76 TIME 07:35MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE INSUFFICIENT DATA WITHIN 2000M OF THE SFC

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3700

E 12/24/76 TIME 13:54MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	38.	4.72	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3702

TE 12/26/76 TIME 07:33MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	838.	1.79	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3703

TE 12/26/76 TIME 13:51MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	805.	0.43	-2.23

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3701

TE 12/28/76 TIME 07:34MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	305.	4.03	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3699

TE 12/28/76 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	38.	0.0	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3697

TE 12/30/76 TIME 07:36MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	876.	1.36	0.0

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3857

TE 12/30/76 TIME 13:54MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
384.	651.	0.0	-1.28

MONTH: DECEMBER YEAR: 1976. UTAH UAUB ELEV 1585 METERS

HOLZWORTHIS CLASSIFICATION SCHEME FOR INVERSIONS
MODIFIED TO SHOW TOTAL NUMBER INSTEAD OF PERCENT

THICKNESS (METERS)	SEC	INVERSION BASE HEIGHT (M) 1- 100	101- 250	251- 500	501- 750	751- 1000	1000- 1500	1501- 2000	2001- 2500	2501- 3000	TOTAL
1 - 100	5	0	1	1	0	0	0	0	0	0	5
101 - 250	1	0	0	0	0	0	0	0	0	0	1
251 - 500	1	0	0	1	0	0	0	0	0	0	2
501 - 750	2	0	0	0	0	0	0	0	0	0	2
751 - 1000	4	3	2	1	0	0	0	0	0	0	10
1001 - 1500	4	1	0	0	0	0	0	0	0	0	5
> 1500	4	0	0	0	0	0	0	0	0	0	4
INV TOTAL	19	4	3	3	0	0	0	0	0	0	29
DT/DZ 5		0	0	0	0	0	0	0	0	0	0
FROM INV 4		0	1	0	0	0	0	0	0	0	1
BASE 3		1	0	1	0	0	0	0	0	0	2
TO 2		1	0	2	0	0	0	0	0	0	3
SFC 1		2	2	0	0	0	0	0	0	0	4
NO INV TOT		0	0	0	0	0	0	DT/DZ (DEG C)/100M			
DT/DZ FOR 5		0	0	0	0	0	0	5= 0.00 TO -0.40			
SAME 4		0	0	0	0	0	0	4=-0.41 TO -0.80			
LAYERS 3		0	0	0	0	0	0	3=-0.81 TO -1.20			
AS INV 2		0	0	0	0	0	0	2=-1.21 TO -1.60			
BASE 1		0	0	0	0	0	0	1=<-1.60			

MONTH: DECEMBER YEAR: 1976. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE A STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM = 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 30 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: DECEMBER YEAR: 1976. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE B STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 30 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: DECEMBER YEAR: 1976. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE C STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 30 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: DECEMBER YEAR: 1976. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.20
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.60	0.0	0.0	0.0	0.0	0.0	1.5	0.60
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.20	0.0	0.0	0.0	0.0	0.0	2.0	0.20
AVG SPEED	1.3	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	1.00	0.0	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE D STABILITY CLASS IS 0.17

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 30 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: DECEMBER YEAR: 1976. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.08	0.0	0.0	0.0	0.0	0.0	0.9	0.08
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.08	0.0	0.0	0.0	0.0	3.0	0.08
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.08	0.0	0.0	0.0	0.0	3.2	0.08
SSE	0.0	0.15	0.0	0.0	0.0	0.0	3.9	0.15
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.08	0.08	0.0	0.0	0.0	0.0	2.8	0.15
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.46	0.0	0.0	0.0	0.0	0.0	1.8	0.46
AVG SPEED	1.7	3.5	0.0	0.0	0.0	0.0		0.0
TOTAL	0.62	0.38	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE E STABILITY CLASS IS 0.45

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 30 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: DECEMBER YEAR: 1976. UTAH UAUB SEC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.18	0.0	0.0	0.0	0.0	0.0	0.3	0.18
SE	0.09	0.0	0.0	0.0	0.0	0.0	1.0	0.09
SSE	0.27	0.0	0.0	0.0	0.0	0.0	1.3	0.27
S	0.09	0.0	0.0	0.0	0.0	0.0	0.6	0.09
SSW	0.27	0.0	0.0	0.0	0.0	0.0	1.8	0.27
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.09	0.0	0.0	0.0	0.0	0.0	1.0	0.09
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	1.1	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	1.00	0.0	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE F STABILITY CLASS IS 0.38

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 30 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: DECEMBER YEAR: 1976. UTAH UAUB SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.03	0.0	0.0	0.0	0.0	0.0	0.9	0.03
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.03	0.0	0.0	0.0	0.0	3.0	0.03
ESE	0.07	0.0	0.0	0.0	0.0	0.0	0.3	0.07
SE	0.03	0.03	0.0	0.0	0.0	0.0	2.1	0.07
SSE	0.10	0.07	0.0	0.0	0.0	0.0	2.3	0.17
S	0.03	0.0	0.0	0.0	0.0	0.0	0.5	0.03
SSW	0.14	0.0	0.0	0.0	0.0	0.0	1.5	0.14
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.17	0.03	0.0	0.0	0.0	0.0	1.7	0.21
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.24	0.0	0.0	0.0	0.0	0.0	1.8	0.24
AVG SPEED	1.4	3.5	0.0	0.0	0.0	0.0		0.0
TOTAL	0.83	0.17	0.0	0.0	0.0	0.0		1.00

NORMALIZED FREQUENCY DISTRIBUTION INDEPENDENT OF STABILITY

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 1 SOUNDINGS FROM A SAMPLE OF 30 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3455

E 12/02/76 TIME 07:18MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-14.84		0.0		2.1	135.
0.5	* 76	1661	-11.06		11.33	14.26		
1.0	150	1735	-9.11	5.73	8.15	11.07	0.6	137.
2.0	300	1885	-5.75	3.36	2.31	5.24	0.6	236.
2.7	415.	2000.	-4.97	0.01	4.41	7.34	0.2	230.
3.3	500	2085	-3.54	2.20	3.44	6.37	0.3	244.
4.0	915.	2500.	-0.13	3.42	0.38	3.31	5.0	197.
4.3	1415.	3000.	2.46	2.58	-0.56	2.37	5.0	278.
5.8	2415.	4000.	-1.47	-3.93	-0.38	2.55		
7.2	3415.	5000.	-9.08	-7.61	-2.91	0.02		
8.8	4415.	6000.	-14.54	-5.45	-3.34	-0.41		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3455

E 12/02/76 TIME 07:18MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	-1.5	1.5	2.1	135.
0.5	76.	1661.	-0.9	2.1	2.3	156.
1.0	152.	1737.	-0.3	0.4	0.5	136.
1.5	229.	1814.	0.0	1.4	1.4	180.
2.0	305.	1890.	0.5	0.3	0.6	240.
2.5	381.	1966.	0.2	0.2	0.3	228.
3.0	457.	2042.	0.1	0.1	0.2	233.
3.5	533.	2118.	0.4	0.1	0.4	252.
4.0	610.	2195.	1.8	-0.2	1.8	276.
4.5	686.	2271.	1.6	-0.1	1.6	272.
5.0	762.	2347.	0.5	0.9	1.0	209.
5.5	838.	2423.	1.3	5.0	5.1	195.
6.0	914.	2499.	1.4	4.8	5.0	197.
6.5	991.	2576.	1.9	4.7	5.1	202.
7.0	1067.	2652.	3.2	3.5	4.7	222.
7.5	1143.	2728.	4.9	2.9	5.7	239.
8.0	1219.	2804.	7.4	2.2	7.7	255.
8.5	1295.	2880.	7.3	0.3	7.4	268.
9.0	1372.	2957.	5.5	-0.3	5.5	275.
9.5	1448.	3033.	4.6	-0.9	4.6	281.
10.0	1524.	3109.	4.0	-1.3	4.2	288.
10.5	1600.	3185.	4.0	-1.6	4.3	292.
11.0	1676.	3261.	3.3	-2.4	4.0	306.
11.5	1753.	3338.	4.0	-2.8	4.8	305.
12.0	1829.	3414.	4.5	-4.2	6.2	313.

UTAH WADB ELEV 1585 METERS SOUNDING ID 3452

E 12/02/76 TIME 13:54MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		7.27		0.0		2.6	270.
1.0	150.	1735	6.53	-0.75	-1.85	1.08	1.9	309.
2.0	300	1885	7.35	0.83	1.45	4.72	2.9	341.
2.7	415.	2000.	6.15	-0.64	-3.70	-0.77	1.9	346.
3.2	500	2085	5.00	-1.12	-0.19	2.74	1.2	226.
5.5	915.	2500.	8.58	3.00	0.37	3.29	8.7	191.
8.1	1415.	3000.	2.80	-2.16	-4.23	7.16	11.9	268.
5.6	2415.	4000.	5.11	-1.32	-2.04	0.89		
1.6	3415.	5000.	-0.51	-5.63	-0.38	3.31		
8.2	4415.	6000.	-4.48	-3.96	-2.68	0.25		

UTAH WADB ELEV 1585 METERS SOUNDING ID 3452

E 12/02/76 TIME 13:54MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	2.6	0.0	2.6	270.
0.5	76.	1661.	1.6	0.0	1.6	270.
1.0	152.	1737.	1.4	-1.2	1.9	310.
1.5	229.	1814.	1.0	-1.9	2.1	333.
2.0	305.	1890.	0.9	-2.8	2.9	342.
2.5	381.	1966.	0.6	-2.1	2.2	345.
3.0	456.	2041.	0.3	-1.3	1.4	349.
3.5	558.	2143.	-0.2	-0.8	0.8	16.
4.0	634.	2219.	1.6	-1.5	2.2	313.
4.5	710.	2295.	2.9	-2.5	3.8	310.
5.0	786.	2371.	-0.5	5.5	5.5	175.
5.5	863.	2448.	1.0	8.0	8.0	187.
6.0	939.	2524.	1.0	8.9	9.1	192.
6.5	1015.	2600.	3.3	8.2	8.9	202.
7.0	1091.	2676.	4.5	7.3	8.5	212.
7.5	1167.	2752.	5.0	5.8	7.7	221.
8.0	1244.	2829.	7.1	4.2	8.2	239.
8.5	1320.	2911.	9.1	3.2	9.6	250.
9.0	1402.	2987.	11.3	0.9	11.3	265.
9.5	1478.	3063.	14.7	1.1	14.7	256.
0.0	1555.	3140.	15.1	1.0	15.1	266.
0.5	1631.	3216.	15.6	0.2	15.6	269.
1.0	1707.	3292.	13.7	-0.1	13.7	271.
1.5	1783.	3368.	12.4	0.0	12.4	270.
2.0	1859.	3444.	11.8	-1.5	11.9	277.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 5450

TE 12/04/76 TIME 07:23 ST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 500M	D/T LAPSE	WS M/S	WD DEG
	SFC		-9.08		6.0		2.1	135.
1.0	150.	1735.	-4.98	4.10	7.68	10.61	0.5	114.
2.0	300.	1885.	-2.26	2.72	4.56	7.49	1.4	191.
2.7	415.	2000.	-0.13	1.93	2.46	5.59	0.8	111.
3.3	500.	2085.	0.34	0.66	0.38	3.51	0.6	163.
5.0	915.	2500.	-0.03	-0.37	-0.19	2.74	5.3	199.
9.3	1415.	3000.	-0.32	-0.29	-1.89	1.03	5.9	236.
5.8	2415.	4000.	-6.62	-6.30	-2.31	0.62		
2.4	3415.	5000.	-13.64	-7.02	-2.94	-0.02		
8.9	4415.	6000.	-21.58	-7.94	-2.99	-0.06		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 5450

E 12/04/76 TIME 07:23MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	AND SPEED M/S	AND DIR DEG
0.0	0.	1585.	-1.5	1.5	2.1	135.
0.5	76.	1661.	-0.6	0.9	1.1	145.
1.0	152.	1737.	-0.5	0.2	0.5	113.
1.5	229.	1814.	-0.3	1.1	1.1	166.
2.0	305.	1890.	0.3	1.3	1.4	193.
2.5	381.	1966.	-0.6	0.7	0.9	140.
3.0	457.	2042.	-0.6	-0.2	0.7	74.
3.5	533.	2118.	0.4	0.3	0.5	233.
4.0	610.	2195.	0.9	1.3	1.6	215.
4.5	686.	2271.	1.2	1.9	2.2	211.
5.0	762.	2347.	0.9	3.3	3.4	196.
5.5	838.	2423.	1.3	5.3	5.5	194.
6.0	914.	2499.	1.7	5.0	5.3	199.
6.5	991.	2576.	2.6	3.8	4.6	214.
7.0	1067.	2652.	4.1	1.8	4.5	247.
7.5	1143.	2728.	5.5	1.1	5.6	260.
8.0	1219.	2804.	5.6	3.0	6.4	242.
8.5	1295.	2880.	4.3	4.4	6.2	225.
9.0	1372.	2957.	5.3	4.2	6.7	232.
9.5	1448.	3033.	5.9	3.6	6.9	239.
0.0	1524.	3109.	6.4	3.1	7.1	244.
0.5	1605.	3190.	6.2	3.2	7.0	243.
1.0	1682.	3267.	4.3	4.0	5.9	227.
1.5	1758.	3343.	3.2	4.7	5.7	215.
2.0	1834.	3419.	2.5	6.2	6.7	202.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3456

E 12/04/76 TIME 13:59MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	T/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		6.05		0.0		1.5	270.
0.8	150	1735	3.93	-2.12	-2.80	0.13	2.3	275.
1.8	300	1885	3.84	-0.09	0.75	3.68	1.3	295.
2.5	415.	2000.	2.80	-0.77	0.19	3.11	1.0	311.
3.1	500	2085	3.38	0.51	0.94	3.86	0.8	49.
5.8	915.	2500.	3.98	0.60	0.37	3.30	3.2	188.
9.1	1415.	3000.	3.03	-0.75	-0.93	1.99	7.3	206.
5.6	2415.	4000.	-2.53	-5.75	-2.09	0.83		
1.4	3415.	5000.	-9.77	-7.24	-1.36	1.57		
8.0	4415.	6000.	-15.74	-5.97	0.59	3.52		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3456

E 12/04/76 TIME 13:59MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
0.0	0.	1585.	1.5	0.0	1.5	270.
0.5	76.	1661.	2.3	0.0	2.3	269.
1.0	182.	1767.	2.4	-0.3	2.4	277.
1.5	259.	1844.	1.1	-0.3	1.2	284.
2.0	335.	1920.	1.1	-0.7	1.3	304.
2.5	411.	1996.	0.6	-0.9	1.0	326.
3.0	487.	2072.	-0.0	-0.6	0.6	0.
3.5	563.	2148.	1.4	-0.5	1.5	290.
4.0	640.	2225.	1.0	-0.4	1.0	294.
4.5	716.	2301.	0.6	0.3	0.7	242.
5.0	792.	2377.	1.6	2.2	2.7	216.
5.5	868.	2453.	0.7	2.2	2.3	199.
6.0	944.	2529.	0.1	3.7	3.7	181.
6.5	1021.	2606.	0.7	6.5	6.5	187.
7.0	1097.	2682.	1.9	8.3	8.5	193.
7.5	1173.	2758.	2.9	9.2	9.6	198.
8.0	1249.	2834.	3.2	8.8	9.3	200.
8.5	1325.	2910.	3.5	6.8	7.7	207.
9.0	1402.	2987.	3.2	6.5	7.3	206.
9.5	1478.	3063.	3.0	6.9	7.5	203.
0.0	1554.	3139.	3.3	6.4	7.3	207.
0.5	1630.	3215.	2.4	7.0	7.4	199.
1.0	1706.	3291.	2.6	8.3	8.7	197.
1.5	1783.	3368.	3.6	8.8	9.5	203.
2.0	1859.	3444.	4.8	9.3	10.5	207.

UTAH UAUA ELEV 1585 METERS SOUNDING ID 3454

TE 12/06/76 TIME 07:17 MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-2.08		0.0		2.1	135.
1.0	150	1735	-6.53	2.55	2.32	5.25	4.0	148.
2.0	300	1885	-5.53	0.0	1.16	4.08	4.1	108.
2.7	415.	2000.	-6.63	-0.09	-1.16	1.77	2.8	116.
3.3	500	2085	-5.72	-0.10	0.0	2.93	2.2	135.
5.0	915.	2500.	-8.09	-1.37	-2.32	0.60	5.6	11.
9.3	1415.	3000.	-11.06	-2.96	-1.56	1.57	15.8	347.
15.7	2415.	4000.	-17.85	-6.79	-1.78	1.15		
22.3	3415.	5000.	-22.69	-4.84	-1.00	1.93		

UTAH UAUA ELEV 1585 METERS SOUNDING ID 3454

TE 12/06/76 TIME 07:17MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	-1.5	1.5	2.1	135.
0.5	76.	1661.	-1.7	3.8	4.1	156.
1.0	152.	1737.	-2.1	3.4	4.0	148.
1.5	229.	1814.	-2.9	1.5	3.3	118.
2.0	305.	1890.	-3.9	1.2	4.1	108.
2.5	381.	1966.	-3.0	1.1	3.2	110.
3.0	457.	2042.	-1.9	1.2	2.3	125.
3.5	533.	2118.	-1.2	1.7	2.1	144.
4.0	610.	2195.	-1.7	0.5	1.7	106.
4.5	686.	2271.	-2.0	-0.6	2.2	68.
5.0	762.	2347.	-1.9	-3.2	3.7	31.
5.5	838.	2423.	-2.0	-4.1	4.6	26.
6.0	914.	2499.	-0.8	-5.5	5.6	8.
6.5	994.	2579.	2.5	-7.9	8.3	343.
7.0	1070.	2655.	1.5	-9.3	9.4	351.
7.5	1147.	2732.	0.5	-10.7	10.8	358.
8.0	1223.	2808.	2.0	-10.6	10.8	349.
8.5	1299.	2884.	2.6	-14.4	14.6	350.
9.0	1375.	2960.	3.1	-15.9	16.2	349.
9.5	1451.	3036.	4.4	-16.8	17.3	346.
0.0	1528.	3113.	3.0	-15.1	15.4	351.
0.5	1604.	3189.	5.1	-20.1	20.7	346.
1.0	1680.	3265.	5.3	-17.7	18.7	340.
1.5	1756.	3341.	7.6	-15.0	19.5	337.
2.0	1832.	3417.	8.1	-17.6	19.4	335.

UTAH DAUB ELEV 1585 METERS SOUNDING ID 3719

E 12/06/76 TIME 13:56MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 500M	D/T LAPSE	WS M/S	WD DEG
	SFC		5.58		0.0		2.1	270.
1.0	150	1735	4.45	-1.13	-3.72	-0.79	1.1	256.
1.8	300	1885	2.65	-1.80	-3.75	-0.82	0.8	172.
2.4	415.	2000.	1.79	-0.84	-3.38	-0.45	0.5	200.
2.9	500	2085	0.85	-0.96	-2.64	0.29	0.6	195.
5.6	915.	72500.	-1.28	-2.13	-1.52	1.41	2.7	231.
8.9	1415.	73000.	-3.41	-2.13	-1.34	1.59	6.8	334.
5.1	2415.	4000.	-9.77	-6.37	-0.97	1.96		
1.5	3415.	5000.	-11.06	-1.28	-5.85	-2.92		
7.5	4415.	6000.	-16.04	-4.99	0.0	2.93		

UTAH DAUB ELEV 1585 METERS SOUNDING ID 3719

E 12/06/76 TIME 13:56MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	2.1	0.0	2.1	270.
0.5	76.	1661.	1.1	0.5	1.2	246.
1.0	152.	1737.	1.0	0.3	1.1	256.
1.5	238.	1823.	0.1	0.5	0.6	195.
2.0	335.	1920.	-0.3	0.9	0.9	158.
2.5	437.	2022.	0.2	0.4	0.4	212.
3.0	521.	2106.	0.1	0.6	0.7	190.
3.5	597.	2182.	-0.5	1.0	1.1	152.
4.0	673.	2258.	-0.0	1.3	1.3	179.
4.5	750.	2335.	0.4	1.0	1.1	205.
5.0	826.	2411.	1.0	1.6	1.9	213.
5.5	902.	2487.	2.1	1.7	2.7	231.
6.0	978.	2563.	2.0	1.6	2.5	232.
6.5	1054.	2639.	1.9	0.8	2.0	248.
7.0	1131.	2716.	2.4	0.7	2.5	254.
7.5	1207.	2792.	2.2	0.6	2.3	255.
8.0	1283.	2868.	2.4	-1.5	2.6	303.
8.5	1359.	2944.	2.3	-3.6	4.3	327.
9.0	1435.	3020.	3.1	-7.1	7.7	337.
9.5	1512.	3097.	4.9	-8.0	9.4	329.
0.0	1588.	3173.	4.9	-9.9	11.0	334.
0.5	1664.	3249.	4.3	-10.0	10.9	337.
1.0	1740.	3325.	4.2	-9.5	10.4	336.
1.5	1816.	3401.	4.7	-10.0	11.0	335.
2.0	1896.	3481.	14.6	-2.5	14.8	280.

UTAH DAUB ELEV 1585 METERS SOUNDING ID 3712

E 12/08/76 TIME 07:27MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	T/T SOUM	D/T LAPSE	WS M/S	WD DEG
	SFC		-3.67		0.0		1.5	135.
1.0	150.	1735.	-5.95	3.92	-3.26	11.18	0.5	95.
2.0	300.	1885.	-1.30	4.65	-4.56	7.49	2.1	167.
2.7	415.	2000.	-0.61	0.50	1.33	0.25	2.4	207.
3.3	500.	2085.	-0.23	0.57	0.95	3.87	3.2	223.
4.0	915.	2500.	-0.13	0.10	-0.19	2.74	5.9	215.
4.3	1115.	3000.	-0.22	-0.09	-0.95	1.98	9.6	225.
5.8	2315.	4000.	-2.34	-2.12	0.76	3.69		
7.4	3415.	5000.	-6.43	-4.09	-1.93	1.00		
8.9	4415.	6000.	-14.74	-8.31	-2.36	0.57		

UTAH DAUB ELEV 1585 METERS SOUNDING ID 3712

E 12/08/76 TIME 07:27MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	-1.1	1.1	1.5	135.
0.5	76.	1661.	-0.2	1.2	1.2	169.
1.0	152.	1737.	-0.4	0.0	0.4	92.
1.5	229.	1814.	-0.7	1.4	1.6	154.
2.0	305.	1890.	-0.4	2.1	2.1	168.
2.5	381.	1966.	0.8	2.1	2.3	201.
3.0	457.	2042.	1.5	2.2	2.6	215.
3.5	533.	2118.	2.8	2.5	3.7	228.
4.0	610.	2195.	2.4	2.2	3.3	210.
4.5	686.	2271.	1.9	2.8	3.4	203.
5.0	762.	2347.	1.8	3.0	3.4	204.
5.5	838.	2423.	2.6	3.8	4.5	208.
6.0	914.	2499.	3.3	3.9	5.5	214.
6.5	991.	2576.	5.7	3.6	7.3	232.
7.0	1067.	2652.	7.5	3.9	8.9	237.
7.5	1143.	2728.	6.8	5.6	8.8	230.
8.0	1219.	2804.	7.4	5.0	9.5	231.
8.5	1295.	2880.	7.4	5.9	9.5	232.
9.0	1372.	2957.	6.9	6.3	9.4	227.
9.5	1448.	3033.	6.8	7.1	9.8	224.
10.0	1524.	3109.	6.9	7.1	9.8	224.
10.5	1600.	3185.	7.7	6.7	10.2	229.
11.0	1676.	3261.	8.1	5.7	9.9	235.
11.5	1753.	3338.	8.7	5.1	10.1	240.
12.0	1829.	3414.	11.4	5.1	12.5	246.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3714

E 12/08/76 TIME 15:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		10.25		0.0		3.6	270.
1.0	150	1735	9.78	-0.47	0.36	3.29	5.8	268.
2.0	300	1885	9.79	0.00	-1.83	1.10	4.3	295.
2.7	415.	2000.	8.39	-1.11	-1.28	1.64	3.0	336.
3.3	500	2085	8.21	-0.47	0.55	3.48	2.7	158.
6.0	915.	2500.	10.99	2.33	-0.91	2.02	11.8	169.
9.3	1415.	3000.	7.93	-2.60	-3.49	-0.57	13.4	182.
5.5	2415.	4000.	5.39	-2.54	0.0	2.93		
1.9	3415.	5000.	2.26	-3.13	-0.94	1.99		
8.4	4415.	6000.	-1.57	-3.83	-4.76	-1.83		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3714

E 12/08/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	3.6	0.0	3.6	270.
0.5	76.	1661.	4.8	1.9	5.1	248.
1.0	152.	1737.	5.8	0.2	5.8	268.
1.5	229.	1814.	5.4	-1.6	5.6	287.
2.0	305.	1890.	3.8	-1.9	4.2	296.
2.5	381.	1966.	1.8	-2.4	3.0	324.
3.0	457.	2042.	0.5	-3.1	3.1	351.
3.5	533.	2118.	-0.3	-2.4	2.4	7.
4.0	610.	2195.	-1.5	-2.7	3.1	29.
4.5	686.	2271.	1.1	-1.7	2.0	328.
5.0	762.	2347.	5.0	2.0	5.3	249.
5.5	838.	2423.	-1.6	9.3	9.4	170.
6.0	914.	2499.	-2.2	11.6	11.8	169.
6.5	991.	2576.	-2.5	12.3	12.5	169.
7.0	1067.	2652.	-2.8	13.5	13.8	168.
7.5	1143.	2728.	-2.1	13.5	13.7	171.
8.0	1219.	2804.	-1.4	13.4	13.4	174.
8.5	1295.	2880.	-0.8	14.4	14.4	177.
9.0	1372.	2957.	0.1	14.2	14.2	180.
9.5	1452.	3037.	0.7	12.7	12.8	183.
0.0	1534.	3119.	1.9	14.0	14.1	188.
0.5	1610.	3195.	3.6	12.5	13.0	196.
1.0	1687.	3272.	4.7	12.8	13.6	200.
1.5	1779.	3364.	6.2	12.5	14.0	206.
2.0	1884.	3469.	8.3	14.2	16.5	210.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3716

E 12/10/76 TIME 07:24MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-9.06		0.0		1.5	135.
1.0	150	1735	-2.26	6.82	4.20	7.12	2.1	111.
2.0	300	1885	-2.24	0.02	-1.52	1.41	3.1	85.
2.7	415.	2000.	-3.21	-0.58	-2.29	0.64	4.4	75.
3.3	500	2085	-3.77	-0.95	-1.91	1.02	5.2	69.
5.0	915.	2500.	-6.53	-2.75	-0.96	1.96	6.1	22.
9.3	1415.	3000.	-9.87	-3.34	-0.78	2.15	11.2	24.
9.8	2415.	4000.	-13.24	-3.37	0.0	2.93		
3.4	3415.	5000.	-16.24	-3.00	-2.17	0.76		
3.8	4415.	6000.	-23.61	-7.37	-2.00	0.93		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3716

12/10/76 TIME 07:24MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

NE MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
.0	0.	1585.	-1.1	1.1	1.5	135.
.5	76.	1661.	-1.5	3.3	3.6	155.
.0	152.	1737.	-2.0	0.7	2.1	110.
.5	229.	1814.	-2.0	-0.0	2.0	90.
.0	305.	1890.	-3.2	-0.4	3.2	85.
.5	381.	1966.	-4.0	-0.9	4.1	78.
.0	457.	2042.	-4.6	-1.6	4.8	71.
.5	533.	2118.	-5.1	-2.2	5.5	67.
.0	610.	2195.	-4.4	-3.0	5.3	56.
.5	687.	2272.	-3.8	-2.7	4.6	54.
.0	764.	2349.	-4.0	-3.1	5.1	53.
.5	841.	2426.	-3.3	-3.9	5.1	40.
.0	917.	2502.	-2.2	-5.8	6.2	21.
.5	993.	2578.	-2.8	-7.2	7.5	18.
.0	1069.	2654.	-3.0	-8.0	8.5	21.
.5	1146.	2731.	-3.0	-8.6	9.1	19.
.0	1222.	2807.	-4.4	-10.6	11.5	22.
.5	1298.	2883.	-4.6	-11.4	12.3	22.
.0	1374.	2959.	-4.8	-11.5	12.5	23.
.5	1450.	3035.	-4.3	-9.2	10.2	25.
.0	1527.	3112.	-3.9	-8.4	9.2	25.
.5	1603.	3188.	-3.5	-7.7	8.4	25.
.0	1679.	3264.	-3.3	-8.2	8.8	22.
.5	1755.	3340.	-3.1	-7.8	8.4	21.
.0	1831.	3416.	-1.5	-8.2	8.4	10.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3718

E 12/10/76 TIME 13:52MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 500M	D/T LAPSE	WS M/S	WD DEG
	SFC		6.34		0.0		1.5	315.
0.8	150	1735	3.59	-2.75	-4.30	-1.37	0.6	293.
1.6	300	1885	2.35	-1.23	-0.56	2.37	0.7	273.
2.4	415.	2000.	1.98	-0.37	-2.26	0.67	1.4	210.
2.9	500	2085	1.14	-0.85	-2.26	0.67	2.7	285.
3.6	915.	2500.	-0.32	-1.25	-3.02	-0.10	4.3	338.
4.5	1415.	3000.	-4.48	-4.85	-0.96	1.97	4.5	4.
5.1	2415.	4000.	-4.77	0.18	1.53	4.46		
1.6	3415.	5000.	-8.59	-3.81	-2.90	0.02		
7.6	4415.	6000.	-14.84	-6.25	-1.18	1.75		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3718

E 12/10/76 TIME 13:52MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	1.1	-1.1	1.5	315.
0.5	76.	1661.	0.7	-0.3	0.8	291.
1.0	192.	1777.	0.5	-0.2	0.5	295.
1.5	285.	1870.	0.2	-0.6	0.6	339.
2.0	361.	1946.	-0.2	-1.0	1.0	12.
2.5	437.	2022.	1.4	-0.5	1.5	290.
3.0	513.	2098.	2.8	-0.7	2.9	285.
3.5	589.	2174.	3.1	-1.8	3.6	300.
4.0	666.	2251.	2.8	-2.3	3.6	310.
4.5	742.	2327.	2.7	-2.8	3.9	316.
5.0	818.	2403.	1.8	-3.1	3.6	331.
5.5	894.	2479.	1.6	-4.0	4.3	339.
6.0	970.	2555.	1.8	-4.0	4.4	335.
6.5	1047.	2632.	2.3	-3.8	4.5	329.
7.0	1143.	2728.	1.5	-3.9	4.2	339.
7.5	1245.	2830.	0.5	-4.4	4.5	353.
8.0	1332.	2917.	0.2	-3.5	3.5	357.
8.5	1412.	2997.	-0.3	-4.4	4.4	4.
9.0	1488.	3073.	-0.2	-5.4	5.4	2.
9.5	1564.	3149.	-0.8	-6.8	6.9	7.
0.0	1640.	3225.	-2.0	-10.5	10.7	11.
0.5	1716.	3301.	-4.0	-9.2	10.0	23.
1.0	1793.	3378.	-2.3	-8.1	8.4	16.
1.5	1869.	3454.	-2.3	-5.9	6.3	21.
2.0	1945.	3530.	-1.5	-4.9	5.1	17.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 5713

E 12/12/76 TIME 07:26MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC,

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-15.84		0.0		0.5	135.
1.0	150	1735	-9.88	3.96	8.15	11.07	0.7	149.
1.0	* 152	1737	-9.87		8.15	11.07		
2.0	300	1885	-4.79	5.10	5.38	8.31	1.1	227.
2.7	415.	?2000.	-3.99	0.79	0.96	3.88	1.2	110.
3.3	? 500	2085	-3.71	0.29	0.76	3.69	1.3	38.
6.0	915.	?2500.	-2.64	1.07	0.76	3.69	1.0	345.
9.3	1415.	?3000.	-1.48	1.16	0.57	3.50	5.8	343.
5.8	2415.	4000.	-3.21	-1.74	-0.76	2.16		
2.2	3415.	5000.	-9.67	-6.46	-1.36	1.57		
8.3	4415.	6000.	-15.34	-5.66	-3.55	-0.62		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 5713

E 12/12/76 TIME 07:26MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC,

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	AND DIR DEG
0.0	0.	1585.	-0.4	0.4	0.5	135.
0.5	76.	1661.	-0.7	0.5	0.9	125.
1.0	152.	1737.	-0.3	0.6	0.7	150.
1.5	229.	1814.	-0.3	1.2	1.3	168.
2.0	305.	1890.	0.6	0.7	1.1	231.
2.5	381.	1966.	-0.4	0.9	1.0	157.
3.0	457.	2042.	-1.1	-0.8	1.4	52.
3.5	533.	2118.	-0.6	-1.1	1.2	27.
4.0	610.	2195.	-0.1	-0.5	0.6	14.
4.5	686.	2271.	-0.5	-0.0	0.5	90.
5.0	762.	2347.	-0.3	0.2	0.4	125.
5.5	838.	2423.	-1.2	-0.3	1.3	75.
6.0	914.	2499.	0.2	-1.0	1.0	347.
6.5	991.	2576.	-0.3	-0.1	0.3	66.
7.0	1067.	2652.	-1.4	0.2	1.4	98.
7.5	1143.	2728.	-1.7	-1.6	2.4	46.
8.0	1219.	2804.	-1.1	-2.0	2.3	28.
8.5	1295.	2880.	0.2	-2.9	2.9	355.
9.0	1372.	2957.	2.5	-5.7	6.2	336.
9.5	1448.	3033.	1.2	-5.5	5.6	348.
0.0	1524.	3109.	2.3	-6.8	7.2	342.
0.5	1600.	3185.	1.6	-7.7	7.9	348.
1.0	1676.	3261.	1.7	-8.6	8.8	349.
1.5	1759.	3344.	1.1	-8.1	8.2	352.
2.0	1835.	3420.	-0.7	-7.5	7.5	5.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3715

E 12/12/76 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STP	T/T 3004	D/T LAPSE	WS M/S	WD DEG
	SFC		5.58		0.0		1.5	315.
0.8	150	1735	2.93	-2.65	-1.31	1.62	2.3	288.
1.8	300	1885	2.57	-0.35	1.31	4.24	2.2	160.
2.5	415.	2000.	3.69	0.93	0.93	3.86	1.1	58.
3.1	500	2085	3.87	0.37	1.49	4.42	0.7	332.
5.8	915.	2500.	5.87	2.00	-0.93	2.00	4.5	101.
9.1	1415.	3000.	3.50	-1.69	-2.43	0.50	2.9	17.
5.6	2415.	4000.	2.68	-1.90	-1.50	1.43		
1.8	3415.	5000.	-5.16	-7.23	-2.49	0.43		
7.8	4415.	6000.	-13.54	-8.39	-2.35	0.58		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3715

E 12/12/76 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	1.1	-1.1	1.5	315.
0.5	76.	1661.	2.0	0.2	2.0	264.
1.0	183.	1768.	2.1	-1.1	2.4	298.
1.5	259.	1844.	0.7	-2.2	2.3	341.
2.0	335.	1920.	-0.2	-2.1	2.1	6.
2.5	411.	1996.	-0.4	-1.0	1.1	23.
3.0	488.	2073.	0.4	-0.7	0.8	332.
3.5	564.	2149.	0.1	-0.2	0.3	333.
4.0	640.	2225.	0.0	-0.1	0.1	339.
4.5	716.	2301.	-1.0	-1.5	1.8	35.
5.0	792.	2377.	-2.8	-0.9	3.0	72.
5.5	869.	2454.	-4.1	1.1	4.3	105.
6.0	945.	2530.	-4.2	0.6	4.3	99.
6.5	1021.	2606.	-3.6	0.6	3.7	100.
7.0	1097.	2682.	-2.5	0.3	2.5	84.
7.5	1173.	2758.	-1.0	-1.9	2.1	28.
8.0	1250.	2835.	-0.6	-2.4	2.5	15.
8.5	1326.	2911.	-1.1	-2.7	2.9	22.
9.0	1402.	2987.	-0.9	-2.8	3.0	18.
9.5	1483.	3068.	-0.6	-2.5	2.6	13.
0.0	1559.	3144.	1.2	-1.5	1.9	321.
0.5	1635.	3220.	1.3	-1.7	2.1	321.
1.0	1711.	3296.	2.0	-2.4	3.1	320.
1.5	1787.	3372.	4.5	-1.9	4.9	294.
2.0	1864.	3449.	5.1	-2.3	5.7	295.

UTAH UADB ELEV 1585 METERS SOUNDING ID 3717

E 12/14/76 TIME 07:25 MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T SOUND	D/T LAPSE	WS M/S	WD DEG
	SFC		-13.55		0.0		1.5	135.
1.0	150	1735	-14.75	5.11	10.00	15.73	1.6	135.
2.0	300	1885	-14.82	3.93	0.20	7.13	1.8	160.
2.7	415.	2000.	-12.50	2.82	3.79	5.72	1.1	204.
3.3	* 495	2080	-11.93		1.70	4.63		
3.3	500	2085	-11.93	0.88	1.14	4.56	0.6	211.
4.0	915.	2500.	-11.93	0.0	-0.75	2.17	4.8	252.
4.3	1115.	2700.	-13.55	-1.63	-1.14	1.79	5.1	41.
5.7	2115.	3700.	-20.60	-6.84	-1.55	1.58		
2.3	3115.	5000.	-15.55	-3.75	-3.12	-0.20		
8.7	4115.	6000.	-19.05	-5.10	-1.78	1.14		

UTAH UADB ELEV 1585 METERS SOUNDING ID 3717

E 12/14/76 TIME 07:25 MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	-1.1	1.1	1.5	135.
0.5	76.	1661.	-1.2	1.2	1.7	135.
1.0	152.	1737.	-1.1	1.1	1.6	135.
1.5	229.	1814.	-0.4	1.9	1.9	168.
2.0	305.	1890.	-0.6	1.7	1.8	159.
2.5	381.	1966.	-0.1	1.3	1.3	176.
3.0	457.	2042.	0.7	0.5	0.9	235.
3.5	533.	2118.	0.1	0.4	0.4	190.
4.0	610.	2195.	-0.5	0.2	0.5	116.
4.5	686.	2271.	-0.1	1.0	1.0	175.
5.0	762.	2347.	1.0	1.3	1.7	215.
5.5	838.	2423.	3.1	2.5	4.0	232.
6.0	914.	2499.	4.6	1.5	4.8	252.
6.5	991.	2576.	3.4	0.1	3.4	269.
7.0	1067.	2652.	1.2	-0.1	1.2	277.
7.5	1143.	2728.	-0.1	1.8	1.8	175.
8.0	1219.	2804.	-0.4	4.2	4.2	174.
8.5	1295.	2880.	-2.8	4.8	5.5	150.
9.0	1372.	2957.	-5.0	-3.2	5.9	57.
9.5	1448.	3033.	-3.0	-5.5	6.2	29.
0.0	1524.	3109.	-2.4	-6.9	7.3	19.
0.5	1600.	3185.	-1.5	-8.3	8.4	11.
1.0	1676.	3261.	1.5	-8.9	9.1	350.
1.5	1753.	3338.	1.3	-7.9	8.0	351.
2.0	1829.	3414.	0.5	-5.3	5.3	355.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3705

E 12/14/76 TIME 13:57MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	SS M/S	WD DEG
	SFC		7.27		0.0		1.5	315.
0.9	150	1735	5.23	-2.05	-0.37	2.56	1.7	291.
1.9	300	1885	4.56	-0.67	-2.03	0.90	2.2	312.
2.6	415.	2000.	4.57	-0.28	0.0	2.93	2.1	299.
3.2	500	2085	4.30	0.02	0.55	3.48	0.8	260.
5.9	915.	2500.	4.76	0.46	0.74	3.66	2.9	201.
8.9	1415.	3000.	3.07	-1.69	-0.37	2.56	4.2	177.
5.3	2415.	4000.	-0.82	-3.89	-0.38	2.55		
1.6	3415.	5000.	-7.37	-6.56	-2.11	0.82		
7.8	4415.	6000.	-13.57	-6.19	-2.14	0.78		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3705

E 12/14/76 TIME 13:57MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	1.1	-1.1	1.5	315.
0.5	76.	1661.	1.4	0.3	1.5	258.
1.0	165.	1750.	1.6	-0.8	1.8	298.
1.5	242.	1827.	1.7	-1.4	2.2	309.
2.0	318.	1903.	1.6	-1.6	2.3	313.
2.5	394.	1979.	2.1	-1.3	2.5	302.
3.0	470.	2055.	0.9	-0.3	0.9	291.
3.5	546.	2131.	0.3	0.4	0.5	211.
4.0	623.	2208.	1.6	2.1	2.7	217.
4.5	699.	2284.	1.8	1.4	2.3	234.
5.0	775.	2360.	2.3	1.1	2.5	244.
5.5	851.	2436.	1.2	2.8	3.1	203.
6.0	927.	2512.	1.0	2.6	2.8	201.
6.5	1004.	2589.	1.7	3.6	4.0	205.
7.0	1080.	2665.	0.9	5.2	5.3	190.
7.5	1167.	2752.	0.7	5.2	5.3	188.
8.0	1272.	2857.	-1.2	4.7	4.8	165.
8.5	1353.	2938.	-0.4	5.2	5.2	175.
9.0	1429.	3014.	-0.2	4.0	4.0	177.
9.5	1505.	3090.	0.4	3.3	3.3	187.
0.0	1595.	3180.	1.2	2.3	2.6	208.
0.5	1671.	3256.	1.7	0.4	1.7	258.
1.0	1747.	3332.	3.9	-2.6	4.7	304.
1.5	1824.	3409.	5.5	-5.6	7.8	316.
2.0	1900.	3485.	5.2	-6.1	8.0	320.
2.5	1976.	3561.	3.8	-1.4	4.0	290.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3707

E 12/16/76 TIME 07:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 500M	D/T LAPSE	WS M/S	WD DEG
	SFC		-10.44		0.0		2.6	135.
1.0	150	1735	-9.01	5.43	11.06	13.98	4.8	155.
2.0	300	1885	-5.35	3.66	2.50	5.43	3.5	170.
2.7	415.	2000.	-4.19	1.07	4.02	6.94	2.4	144.
3.3	500	2085	-2.95	1.34	3.44	6.36	2.0	146.
6.0	915.	2500.	-0.03	2.91	1.89	4.82	6.3	200.
9.3	1415.	3000.	1.03	0.10	0.75	3.65	4.7	252.
1.8	*1790	3375	2.74		0.0	2.93		
5.8	2415.	4000.	1.79	1.42	-1.13	1.80		
2.4	3415.	5000.	-1.89	-2.68	-1.14	1.79		
9.0	4415.	6000.	-6.72	-5.44	-1.74	1.19		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3707

E 12/16/76 TIME 07:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1555.	-1.8	1.8	2.5	135.
0.5	76.	1631.	-4.0	4.3	5.9	137.
1.0	152.	1737.	-1.9	4.3	4.7	156.
1.5	229.	1814.	-1.6	4.3	4.6	160.
2.0	305.	1890.	-0.6	3.4	3.5	170.
2.5	381.	1966.	-1.0	2.0	2.2	155.
3.0	457.	2042.	-1.9	1.7	2.5	132.
3.5	533.	2118.	-0.6	1.4	1.5	158.
4.0	610.	2195.	-0.1	1.5	1.5	175.
4.5	686.	2271.	0.4	2.0	2.0	192.
5.0	762.	2347.	-0.4	2.3	2.4	170.
5.5	838.	2423.	0.6	3.7	3.7	189.
6.0	914.	2499.	2.1	5.9	6.3	199.
6.5	991.	2576.	3.9	5.7	6.9	214.
7.0	1067.	2652.	4.4	3.8	5.6	230.
7.5	1143.	2728.	5.4	2.9	6.1	242.
8.0	1219.	2804.	5.0	3.3	6.5	239.
8.5	1295.	2880.	4.3	4.0	5.8	227.
9.0	1372.	2957.	4.2	2.4	4.8	240.
9.5	1448.	3033.	4.6	0.8	4.6	261.
0.0	1524.	3109.	5.5	1.0	5.6	260.
0.5	1600.	3185.	8.3	1.1	8.4	262.
1.0	1676.	3261.	9.8	1.3	9.8	262.
1.5	1753.	3338.	11.4	0.0	11.4	270.
2.0	1829.	3414.	12.5	-1.6	12.7	277.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 5709

TE 12/16/76 TIME 14:02MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		5.58		0.0		3.1	315.
1.0	150	1735	4.64	-0.94	-0.19	2.74	2.6	274.
2.0	300	1885	4.18	-0.47	-0.93	2.00	2.8	324.
2.7	415.	2000.	4.07	0.36	2.05	4.97	2.8	198.
3.3	500	2085	5.29	0.75	5.75	8.68	2.4	29.
4.0	* 609	2194	6.99		0.74	3.67		
6.0	915.	2500.	7.46	2.27	-0.37	2.56	4.0	219.
9.3	1415.	?3000.	6.90	-0.66	-0.37	2.56	1.6	158.
15.8	2415.	4000.	6.05	-0.85	-2.23	0.70		
22.3	3415.	5000.	0.84	-5.22	-1.32	1.61		
28.6	4415.	6000.	-4.96	-5.80	-4.79	-1.86		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 5709

TE 12/16/76 TIME 14:02MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	2.2	-2.2	3.1	315.
0.5	76.	1661.	1.9	0.4	2.0	258.
1.0	152.	1737.	2.6	-0.2	2.6	275.
1.5	229.	1814.	2.5	-1.7	3.1	304.
2.0	305.	1890.	1.6	-2.3	2.8	325.
2.5	381.	1966.	0.6	-2.8	2.9	347.
3.0	457.	2042.	-0.6	-2.5	2.6	13.
3.5	533.	2118.	-1.5	-1.7	2.3	42.
4.0	610.	2195.	-0.6	-0.5	0.8	51.
4.5	686.	2271.	-0.3	-0.4	0.5	38.
5.0	762.	2347.	1.4	-0.9	1.7	303.
5.5	838.	2423.	3.3	0.6	3.3	260.
6.0	914.	2499.	2.5	3.1	4.0	219.
6.5	991.	2576.	0.1	4.8	4.8	181.
7.0	1067.	2652.	-0.2	4.4	4.4	177.
7.5	1143.	2728.	0.3	3.1	3.1	186.
8.0	1219.	2804.	1.4	2.2	2.6	213.
8.5	1295.	2880.	2.3	1.4	2.7	240.
9.0	1372.	2957.	0.3	0.7	0.8	201.
9.5	1448.	3033.	-1.8	1.3	2.2	126.
10.0	1524.	3109.	-3.5	1.9	3.9	118.
10.5	1600.	3185.	-4.0	1.1	4.2	106.
11.0	1676.	3261.	-3.7	-0.3	3.7	85.
11.5	1753.	3338.	-2.6	1.3	2.9	117.
12.0	1829.	3414.	-3.1	1.6	3.5	117.

UTAH U&IB ELEV 1585 METERS SOUNDING ID 3711

TE 12/18/76 TIME 07:2[illegible]MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/I STD	D/I 300M	D/I LAPSE	WS M/S	WD DEG
	SFC		-17.85		0.0		1.5	225.
1.0	150	1735	-11.76	5.09	10.89	13.82	0.3	109.
2.0	300	1885	-6.34	5.42	5.28	6.20	0.2	214.
2.7	415.	?2000.	-5.07	1.27	4.79	7.72	1.2	77.
3.3	? 500	2085	-3.35	1.71	4.58	7.51	1.3	101.
4.8	* 723	2308	-0.51		1.52	4.45		
6.0	915.	2500.	-1.18	2.26	0.0	2.93	6.5	205.
9.3	1415.	3000.	-1.57	-6.48	0.57	3.50	10.8	221.
15.8	2415.	4000.	-2.34	-0.77	0.0	2.93		
22.4	3415.	5000.	-8.60	-5.66	-1.74	1.19		
28.9	4415.	6000.	-13.74	-5.74	-0.98	1.95		

UTAH U&IB ELEV 1585 METERS SOUNDING ID 3711

TE 12/18/76 TIME 07:2[illegible]MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	1.1	1.1	1.5	225.
0.5	76.	1661.	-1.4	2.9	3.2	154.
1.0	152.	1737.	-0.2	0.1	0.2	108.
1.5	229.	1814.	-0.7	1.3	1.5	152.
2.0	305.	1890.	0.1	0.1	0.1	218.
2.5	381.	1966.	-1.1	-0.2	1.1	78.
3.0	457.	2042.	-1.2	-0.3	1.3	76.
3.5	533.	2118.	-1.2	0.7	1.4	120.
4.0	610.	2195.	2.3	0.2	2.3	265.
4.5	686.	2271.	2.7	3.0	4.0	222.
5.0	762.	2347.	2.8	6.6	7.2	203.
5.5	838.	2423.	2.3	6.3	6.7	200.
6.0	914.	2499.	2.7	5.9	6.5	205.
6.5	991.	2576.	3.1	7.6	8.2	203.
7.0	1067.	2652.	5.3	8.5	10.1	211.
7.5	1143.	2728.	5.3	8.6	10.8	216.
8.0	1219.	2804.	5.2	9.0	11.0	215.
8.5	1295.	2880.	6.4	8.6	10.8	216.
9.0	1372.	2957.	7.0	8.8	11.2	218.
9.5	1448.	3033.	7.2	7.5	10.4	224.
10.0	1524.	3109.	6.0	5.6	9.0	222.
10.5	1600.	3185.	4.1	5.1	7.4	214.
11.0	1676.	3261.	4.0	5.5	7.6	212.
11.5	1753.	3338.	3.6	4.2	5.6	220.
12.0	1829.	3414.	4.1	3.2	5.2	232.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3710

12/15/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

ME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 3000	D/T LAPSE	WS M/S	WD DEG
	SFC		4.01		0.0		1.5	315.
.0	150	1735	3.43	-0.57	2.10	5.03	0.9	274.
.3	* 190	1775	5.08		1.91	4.64		
.3	300	1885	4.58	1.45	-3.25	-0.32	1.6	32.
.7	415.	2000.	3.91	-0.98	-0.96	1.97	2.1	41.
.2	500	2085	2.56	-1.34	3.44	5.36	1.8	174.
.3	* 611	2396	4.26		-0.57	2.36		
.9	915.	2500.	7.10	4.55	-2.46	0.47	4.5	226.
.2	1415.	3000.	3.61	-2.91	-2.87	0.06	5.0	259.
.2	2415.	4000.	-0.29	-5.19	-1.74	1.18		
.2	3415.	5000.	-5.04	-4.16	-1.96	0.07		
.3	4415.	6000.	-11.66	-6.61	-2.18	0.74		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3710

12/15/76 TIME 13:55MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

ME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
.0	0.	1585.	1.1	-1.1	1.5	315.
.5	76.	1661.	1.1	0.6	1.2	240.
.5	152.	1737.	0.9	-0.1	0.9	275.
.5	229.	1814.	0.5	-1.4	1.4	339.
.5	305.	1890.	-0.3	-1.6	1.6	11.
.5	384.	1969.	-1.3	-1.7	2.1	35.
.5	469.	2054.	-1.6	-1.3	2.1	50.
.5	545.	2130.	0.2	-1.3	1.3	350.
.5	621.	2206.	2.3	-0.0	2.3	271.
.5	697.	2282.	3.4	1.3	3.6	250.
.5	773.	2358.	4.1	2.3	4.7	241.
.5	850.	2435.	3.8	2.7	4.7	234.
.5	926.	2511.	3.1	3.2	4.5	224.
.5	1002.	2587.	3.4	2.3	4.1	236.
.5	1078.	2663.	4.3	2.0	4.7	246.
.5	1154.	2739.	3.9	2.0	4.4	243.
.5	1231.	2816.	2.5	2.9	3.8	221.
.5	1307.	2892.	2.9	2.5	3.9	230.
.5	1383.	2968.	4.6	1.1	4.7	256.
.5	1460.	3045.	5.4	0.7	5.4	262.
.5	1540.	3130.	5.2	-0.0	5.2	270.
.5	1653.	3238.	5.5	1.0	5.5	281.
.5	1738.	3323.	5.2	0.1	5.2	269.
.5	1814.	3399.	5.5	-0.4	5.5	272.
.0	1890.	3475.	7.8	0.5	7.8	266.

UTAH UAIN ELEV 1585 METERS SOUNDING ID 3708

12/20/76 TIME 07:27 MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

ME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T SOUN	D/T LAPSE	WS M/S	WD DEG
	SFC		+17.4		0.0		2.1	225.
.0	150.	1735.	+11.9	5.55	5.52	9.55	2.5	142.
.0	300.	1885.	+7.4	2.95	3.25	12.18	4.1	166.
.7	415.	2000.	+5.9	3.15	0.38	3.31	1.4	129.
.3	500.	2085.	+5.1	+0.29	+1.15	1.78	0.8	170.
.0	915.	?2500.	+2.1	+0.00	0.57	3.50	1.8	256.
.3	1415.	?3000.	+5.7	0.19	0.19	3.12	1.8	196.
.3	2415.	4000.	+5.2	0.38	0.0	2.93		
.3	3415.	5000.	+8.2	+3.90	+2.70	0.22		
.3	4415.	6000.	+15.7	+6.72	+0.98	1.95		

UTAH UAIB ELEV 1585 METERS SOUNDING ID 3708

12/20/76 TIME 07:27 MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

ME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
.0	0.	1585.	1.5	1.5	2.1	225.
.5	76.	1661.	+1.4	1.4	2.0	135.
.0	152.	1737.	+1.5	1.9	2.5	142.
.5	229.	1814.	+0.8	1.7	1.9	156.
.0	305.	1890.	+1.0	4.1	4.2	166.
.5	381.	1966.	+0.1	2.3	2.3	177.
.0	457.	2042.	+0.2	+0.1	0.2	69.
.5	533.	2118.	1.2	0.5	1.3	248.
.0	610.	2195.	0.3	0.6	0.6	206.
.5	686.	2271.	0.0	0.5	0.5	181.
.0	762.	2347.	0.2	1.3	1.3	190.
.5	838.	2423.	0.3	1.3	1.3	193.
.0	914.	2499.	1.7	0.4	1.7	256.
.5	991.	2576.	2.7	0.7	2.7	255.
.0	1067.	2652.	3.1	+0.5	3.2	281.
.5	1143.	2728.	2.4	+1.3	2.7	299.
.0	1219.	2804.	2.1	+1.7	2.7	308.
.5	1295.	2880.	1.4	+1.3	1.9	313.
.0	1372.	2957.	0.6	0.4	0.7	235.
.5	1448.	3033.	+0.5	2.6	2.6	167.
.0	1524.	3109.	+0.6	2.0	2.1	164.
.5	1600.	3185.	+0.2	1.2	1.2	173.
.0	1676.	3261.	+1.1	2.6	2.8	157.
.5	1753.	3338.	+2.1	2.6	3.4	141.
.0	1829.	3414.	+1.4	0.7	1.6	116.

UTAH DATA ELEV 1585 METERS SOUNDING ID 5706

E 12/20/76 TIME 13:51MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	T/T STD	T/T SOND	T/T LAPSE	WS M/S	WD DEG
	SFC		0.74		0.0		2.0	315.
1.0	150	1735	-0.59	-1.34	-0.19	2.74	1.9	300.
2.0	300	1885	0.27	0.57	-1.28	1.15	1.9	356.
2.7	415.	2000.	-0.69	-1.25	1.51	4.43	1.2	351.
3.3	500	2085	-0.29	0.89	-0.38	2.55	1.8	336.
4.0	615.	2200.	-0.98	-0.69	1.31	4.24	2.7	259.
4.3	1415.	3000.	0.55	1.55	-2.44	0.89	5.6	218.
5.2	2415.	4000.	-2.90	-3.47	-0.75	2.17		
1.1	3415.	5000.	-8.62	-5.93	-3.87	-0.04		
5.4	4415.	6000.	-16.73	-7.91	-4.51	-1.58		

UTAH DATA ELEV 1585 METERS SOUNDING ID 5706

E 12/20/76 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	1.8	-1.8	2.6	315.
0.5	76.	1661.	2.3	0.7	2.4	253.
1.0	152.	1737.	1.6	-1.0	1.8	302.
1.5	229.	1814.	1.1	-2.1	2.4	334.
2.0	305.	1890.	0.1	-1.9	1.9	358.
2.5	383.	1968.	0.4	-0.9	1.0	335.
3.0	460.	2045.	0.8	-1.1	1.4	325.
3.5	536.	2121.	0.5	-2.1	2.2	344.
4.0	612.	2197.	-0.6	-0.9	1.1	34.
4.5	688.	2273.	0.3	-0.9	1.0	342.
5.0	764.	2349.	0.2	-1.4	1.5	351.
5.5	841.	2426.	1.0	-0.8	1.3	309.
6.0	917.	2502.	2.5	1.0	2.7	249.
6.5	993.	2578.	2.9	2.9	4.1	225.
7.0	1069.	2654.	2.7	4.6	5.3	211.
7.5	1145.	2730.	1.9	5.6	6.0	199.
8.0	1222.	2807.	2.7	4.9	5.7	209.
8.5	1298.	2883.	2.9	4.8	5.6	211.
9.0	1374.	2959.	3.5	4.9	6.0	216.
9.5	1450.	3035.	3.4	4.1	5.3	220.
0.0	1541.	3126.	4.1	5.0	6.5	219.
0.5	1619.	3204.	3.9	3.3	5.1	230.
1.0	1696.	3281.	3.2	1.1	3.3	260.
1.5	1772.	3357.	3.9	-1.6	4.3	293.
2.0	1848.	3433.	2.5	-2.9	3.8	319.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 5704

E 12/22/76 TIME 07:29MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T SOCM	D/T LAPSE	WS M/S	WD DEG
	SFC		-14.84		0.0		1.5	225.
1.0	150	1735	-11.27	3.57	8.76	11.69	0.9	105.
2.0	300	1885	-7.90	3.37	4.82	7.75	1.3	145.
2.7	415.	2000.	-4.97	2.54	4.22	7.15	0.8	151.
3.3	560	2085	-3.72	1.64	2.87	5.80	0.9	178.
5.0	915.	2500.	-2.25	1.46	0.38	3.31	7.2	257.
9.3	1415.	3000.	-1.96	0.30	1.71	4.64	7.7	260.
0.8	*1638	3223	-0.80		0.0	2.95		
3.8	2415.	4000.	-5.74	-3.78	-2.50	0.43		
2.4	3415.	5000.	-11.36	-5.62	-1.76	1.17		
3.9	4415.	6000.	-15.64	-4.28	-1.38	1.55		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 5704

E 12/22/76 TIME 07:29MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

ME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
.0	0.	1585.	1.1	1.1	1.5	225.
.5	76.	1661.	-2.1	1.7	2.7	130.
.0	152.	1737.	-0.8	0.2	0.8	104.
.5	229.	1814.	-0.7	0.1	0.8	100.
.0	305.	1890.	-0.7	1.1	1.3	148.
.5	381.	1966.	-0.0	0.6	0.6	176.
.0	457.	2042.	-0.9	0.5	1.1	118.
.5	533.	2118.	0.5	0.5	0.7	225.
.0	610.	2195.	1.0	1.6	1.8	212.
.5	686.	2271.	0.8	1.7	1.8	206.
.0	762.	2347.	1.2	1.2	1.7	226.
.5	838.	2423.	2.6	0.8	2.8	253.
.0	914.	2499.	7.0	1.6	7.2	257.
.5	991.	2576.	8.1	1.5	8.3	259.
.0	1067.	2652.	7.7	2.5	8.1	252.
.5	1143.	2728.	9.0	2.1	9.2	257.
.0	1219.	2804.	10.2	1.8	10.3	260.
.5	1295.	2880.	8.4	-0.4	8.4	273.
.0	1372.	2957.	10.1	1.9	10.3	259.
.5	1448.	3033.	5.7	0.9	5.7	261.
.0	1524.	3109.	4.0	0.5	4.1	263.
.5	1600.	3185.	4.2	-1.1	4.4	285.
.0	1676.	3261.	4.2	-0.1	4.2	272.
.5	1753.	3338.	3.2	-1.3	3.4	292.
.0	1829.	3414.	3.5	-1.7	3.9	296.

UTAH UAUB ELEV 1565 METERS SOUNDING ID 3696

TE 12/22/76 TIME 13:51 MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T SOND	D/T LAPSE	WS M/S	WD DEG
	SFC		2.74		0.0		2.1	315.
0.9	150	1735	0.05	-2.09	-0.57	2.56	2.2	315.
1.5	300	1865	-0.39	-0.83	-1.69	1.66	2.3	336.
2.5	415.	2000.	-1.67	-1.24	-0.19	2.74	1.8	320.
3.1	500	2065	-1.57	0.06	1.14	4.07	1.1	238.
5.8	915.	2500.	-0.13	1.95	0.0	2.93	6.3	290.
9.1	1415.	3000.	-1.96	-1.66	-2.09	0.84	3.6	295.
14.3	*2200	3765	-4.09		-1.15	1.78		
15.7	2415.	4000.	-3.03	-1.45	3.06	5.09		
16.4	*2581	4166	-1.76		0.0	2.93		
21.0	3415.	5000.	-7.51	-4.48	1.93	4.86		
27.0	4415.	6000.	-10.95	-3.44	11.54	14.47		

UTAH UAUB ELEV 1565 METERS SOUNDING ID 3696

TE 12/22/76 TIME 13:51 MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	1.5	-1.5	2.1	315.
0.5	76.	1661.	1.9	-1.2	2.2	302.
1.0	161.	1746.	2.3	-2.8	3.6	320.
1.5	257.	1842.	0.9	-2.3	2.3	345.
2.0	334.	1919.	1.2	-1.9	2.2	328.
2.5	410.	1995.	1.2	-1.3	1.8	318.
3.0	486.	2071.	0.2	-1.0	1.0	347.
3.5	563.	2148.	-0.5	-1.0	1.1	19.
4.0	639.	2224.	1.1	-0.4	1.2	288.
4.5	715.	2300.	2.2	2.7	3.5	220.
5.0	791.	2376.	3.7	2.3	4.3	238.
5.5	867.	2452.	5.9	1.3	6.1	257.
6.0	944.	2529.	6.4	1.0	6.5	261.
6.5	1020.	2605.	6.1	1.1	6.2	259.
7.0	1096.	2681.	6.5	0.6	6.6	262.
7.5	1172.	2757.	6.3	0.9	6.4	258.
8.0	1248.	2833.	5.0	0.4	5.0	265.
8.5	1325.	2910.	4.5	-0.5	4.3	277.
9.0	1401.	2986.	3.7	0.7	3.8	259.
9.5	1477.	3062.	2.2	1.5	2.7	234.
10.0	1553.	3138.	1.3	1.6	2.1	219.
10.5	1629.	3214.	2.2	2.0	3.0	227.
11.0	1706.	3291.	3.1	2.9	4.0	229.
11.5	1782.	3367.	3.9	3.7	5.1	224.
12.0	1858.	3443.	2.5	3.8	4.6	213.

UTAH UAIR ELEV 1585 METERS SOUNDING ID 3698

E 12/24/76 TIME 07:35MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T S.ADIA	D/T LAPSE	WS M/S	WD DEG
	SFC		=2.37		0.0		1.0	180.
1.0	150.	1735.	=3.79	1.78	0.78	5.70	1.1	213.
2.0	300.	1885.	=5.34	1.75	7.14	10.06	2.5	190.
2.7	415.	2000.					2.8	226.
3.3	500.	2085.					3.0	204.
6.0	915.	2500.					5.2	302.

UTAH UAIR ELEV 1585 METERS SOUNDING ID 3698

E 12/24/76 TIME 07:35MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	=0.6	1.0	1.0	180.
0.5	76.	1661.	=0.1	1.2	1.2	173.
1.0	152.	1737.	0.6	0.9	1.1	215.
1.5	229.	1814.	0.6	1.3	1.4	205.
2.0	305.	1890.	0.4	2.6	2.6	190.
2.5	381.	1966.	1.5	2.1	2.6	216.
3.0	457.	2042.	2.5	1.6	3.0	238.
3.5	533.	2118.	2.7	1.1	2.9	248.
4.0	610.	2195.	3.1	0.2	3.1	266.
4.5	686.	2271.	2.9	=1.2	3.2	292.
5.0	762.	2347.	3.0	=2.5	3.9	309.
5.5	838.	2423.	3.6	=2.8	4.5	309.
6.0	914.	2499.	4.4	=2.7	5.2	302.
6.5	991.	2576.	5.7	=2.4	6.2	293.
7.0	1067.	2652.	7.6	=2.8	8.1	290.
7.5	1143.	2728.	9.1	=2.4	9.4	285.
8.0	1219.	2804.	10.7	=1.5	10.8	278.
8.5	1295.	2880.	9.9	=0.7	9.9	274.
9.0	1372.	2957.	9.5	0.4	9.5	268.

UTAH UADS ELEV 1585 METERS SOUNDING ID 3700

12/20/76 TIME 13:54 ST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STP	D/T SIGW	L/T LAPSE	WS M/S	WD DEG
	SFC		2.70		0.0		2.1	270.
1.0	150.	1735.	3.73	-1.04	18.82	21.75	2.2	258.
2.0	300.	1885.	3.30	-0.88	-66.75	2.18	2.1	322.
2.7	415.	2000.	2.27	-0.56	0.75	3.68	3.0	324.
3.3	500.	2085.	2.59	-0.05	-0.56	2.37	1.8	326.
3.9	915.	2500.	-0.03	-2.89	-1.09	1.04	3.2	32.
4.7	1415.	3000.	-3.51	-2.65	-7.23	-4.30	8.3	27.
3.7	2415.	4000.	-10.56	-5.61	-3.12	-0.19		
5.2	3415.	5000.	-16.04	-5.58	-2.76	0.17		
5.2	4415.	6000.	-22.39	-6.35	-2.20	0.73		

UTAH UADS ELEV 1585 METERS SOUNDING ID 3700

12/20/76 TIME 13:54 ST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	2.1	0.0	2.1	270.
0.5	76.	1661.	2.5	1.2	2.8	245.
1.0	152.	1737.	2.2	0.5	2.2	258.
1.5	229.	1814.	1.4	-0.0	1.4	270.
2.0	305.	1890.	1.8	-2.6	3.2	325.
2.5	381.	1966.	2.1	-2.9	3.6	325.
3.0	457.	2042.	1.4	-1.8	2.3	323.
3.5	533.	2118.	0.8	-1.2	1.4	326.
4.0	610.	2195.	0.8	-1.4	1.6	331.
4.5	686.	2271.	-0.1	-1.7	1.7	5.
5.0	762.	2347.	-1.1	-2.0	2.3	29.
5.5	838.	2423.	-1.5	-1.7	2.3	40.
6.0	946.	2531.	-1.7	-3.2	3.6	29.
6.5	1022.	2607.	-2.6	-3.7	4.5	35.
7.0	1098.	2683.	-2.5	-4.3	5.5	39.
7.5	1174.	2759.	-3.8	-4.9	5.2	38.
8.0	1251.	2836.	-3.8	-5.4	5.5	35.
8.5	1337.	2922.	-3.6	-5.2	7.1	30.
9.0	1516.	3101.	-3.7	-9.1	9.8	22.
9.5	1645.	3230.	-1.6	-9.6	9.9	10.
10.0	1730.	3315.	-1.0	-9.1	9.2	6.
10.5	1859.	3444.	-0.8	-9.1	9.2	7.
11.0	1992.	3577.	1.0	-9.0	9.1	345.
11.5	2068.	3653.	2.1	-9.7	3.4	322.
12.0	2146.	3731.	2.4	-9.7	3.6	318.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3702

E 12/26/76 TIME 07:53MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-14.84		0.0		1.0	180.
1.0	150	1735	-7.55	7.31	12.94	15.87	1.1	180.
2.0	300	1885	-3.32	4.21	5.82	6.74	1.5	289.
2.7	415.	2000.	-1.86	1.50	1.90	4.65	2.6	322.
3.3	500	2085	-1.23	0.53	1.71	4.64	2.5	339.
3.5	* 538	2123	0.10		0.19	5.12		
3.0	915.	2500.	-0.13	1.11	0.0	2.93	8.6	214.
3.3	1415.	3000.	-0.13	0.0	-0.38	2.55	13.3	245.
3.8	2415.	4000.	0.26	0.39	-1.51	1.42		
3.4	3415.	5000.	-4.48	-4.74	-1.15	1.78		
3.0	4415.	6000.	-9.08	-4.60	-2.72	0.21		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3702

12/26/76 TIME 07:53MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	-0.0	1.0	1.0	180.
0.5	76.	1661.	-0.3	1.1	1.2	167.
0.5	152.	1737.	-0.0	1.1	1.1	180.
0.5	229.	1814.	0.6	0.1	0.6	258.
0.5	305.	1890.	1.6	-0.6	1.7	292.
0.5	381.	1966.	1.9	-1.8	2.6	313.
0.5	457.	2042.	1.2	-2.4	2.7	333.
0.5	533.	2118.	0.6	-2.0	2.1	344.
0.5	610.	2195.	-0.3	-0.4	0.5	35.
0.5	686.	2271.	0.9	0.8	1.2	227.
0.5	762.	2347.	2.9	3.4	4.5	221.
0.5	838.	2423.	4.6	7.0	8.3	214.
0.5	914.	2499.	4.8	7.1	8.6	214.
0.5	991.	2576.	5.6	6.7	8.8	220.
0.5	1067.	2652.	6.2	6.3	8.8	225.
0.5	1143.	2728.	6.1	5.4	8.2	229.
0.5	1219.	2804.	8.2	5.5	9.9	236.
0.5	1295.	2880.	9.9	5.8	11.5	240.
0.5	1372.	2957.	11.2	6.4	12.9	240.
0.5	1448.	3033.	12.4	5.7	13.7	245.
0.5	1524.	3109.	14.8	3.6	15.3	256.
0.5	1600.	3185.	14.1	2.4	14.3	260.
0.5	1676.	3261.	10.9	3.1	11.3	254.
0.5	1753.	3338.	9.2	4.8	10.4	242.
0.0	1829.	3414.	5.5	4.1	9.4	244.

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3703

E 12/26/76 TIME 13:51MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T SEC	D/T SMM	D/T LAPSE	WS M/S	WD DEG
	SFC		3.33		0.0		5.6	315.
1.0	150	1735	3.55	-0.28	+0.37	2.56	5.2	275.
2.0	300	1885	3.72	-0.18	+0.37	3.30	4.1	335.
2.7	415.	2000.	3.54	-0.65	0.0	2.93	4.7	198.
3.3	500	2085	3.53	-0.56	+3.36	+0.43	5.2	10.
3.3	* 804	2389	3.27		+3.19	3.02		
4.0	915.	2500.	4.68	1.8	+3.49	+0.05	6.8	249.
4.0	1415.	3000.	3.43	-0.99	0.74	3.37	9.9	239.
1.8	*1906	3491	0.38		+2.82	0.31		
4.5	*2330	3915	4.19		0.0	2.03		
5.0	2415.	4000.	2.71	-1.11	+5.73	+2.86		
0.6	3415.	5000.	-1.03	-3.74	-1.70	1.22		
5.5	4415.	5000.	-5.39	-4.36	0.19	3.12		

UTAH UAUB ELEV 1585 METERS SOUNDING ID 3703

E 12/26/76 TIME 13:51MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	2.6	-2.5	3.6	315.
0.5	76.	1661.	2.9	1.4	3.3	240.
1.0	152.	1737.	3.2	-0.3	3.2	276.
1.5	229.	1814.	2.3	+2.1	3.2	313.
2.0	305.	1890.	1.6	+3.8	4.1	337.
2.5	381.	1966.	0.6	+4.4	4.4	353.
3.0	457.	2042.	-0.5	+4.9	4.9	6.
3.5	533.	2118.	-1.3	+5.3	5.5	14.
4.0	614.	2199.	-2.0	+4.4	4.8	25.
4.5	690.	2275.	-1.3	+0.6	1.4	64.
5.0	767.	2352.	-1.8	+4.4	4.8	22.
5.5	843.	2428.	-1.0	+0.2	0.3	3.
6.0	919.	2504.	2.6	+5.4	6.0	334.
6.5	1029.	2614.	2.9	5.0	5.5	300.
7.0	1106.	2691.	4.9	5.8	10.1	209.
7.5	1182.	2767.	5.0	8.2	10.2	210.
8.0	1259.	2844.	5.9	6.3	9.4	228.
8.5	1346.	2931.	7.1	5.5	9.0	233.
9.0	1422.	3007.	8.7	5.0	10.0	240.
9.5	1498.	3083.	10.2	4.6	11.3	245.
0.0	1574.	3159.	9.2	5.0	10.5	241.
0.5	1650.	3235.	9.6	4.8	10.7	243.
1.0	1727.	3312.	11.0	4.4	11.8	248.
1.5	1833.	3418.	12.8	4.0	13.4	253.
2.0	1945.	3530.	13.0	4.2	13.6	252.

UTAH UAUB ELEV 1565 METERS SOUNDING ID 3701

E 12/28/76 TIME 07:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/I STD	D/I 3.0M	D/I LAPSE	WS M/S	WD DEG
	SFC		=13.34		2.0		5.6	135.
1.0	150	1735	=5.98	7.36	14.02	16.95	7.3	141.
1.3	* 256	1851	=1.57		5.34	3.27		
2.0	300	1895	=1.57	4.41	0.19	3.12	5.5	154.
2.7	415.	2000.	=1.76	=0.19	=1.33	1.60	4.1	187.
3.3	500	2085	=2.40	=0.84	=2.28	0.64	3.9	204.
5.2	915.	2500.	=5.24	=3.64	0.0	2.93	5.5	259.
9.0	1415.	3000.	=7.51	=1.17	=1.74	1.19	2.7	297.
5.0	2015.	4000.	=10.17	=3.15	0.39	3.32		
2.2	3415.	5000.	=12.74	=2.57	=2.54	0.38		
8.7	4415.	6000.	=19.56	=6.71	=5.18	=0.25		

UTAH UAUB ELEV 1565 METERS SOUNDING ID 3701

E 12/28/76 TIME 07:34MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1565.	=2.5	2.5	3.5	135.
0.5	76.	1641.	=3.2	1.1	3.4	108.
1.0	152.	1737.	=4.6	5.8	7.5	142.
1.5	229.	1814.	=3.8	3.6	5.2	133.
2.0	305.	1890.	=2.2	4.8	5.3	155.
2.5	381.	1966.	=0.2	4.4	4.4	177.
3.0	457.	2042.	1.2	3.5	3.7	198.
3.5	533.	2118.	1.9	3.6	4.1	208.
4.0	615.	2200.	2.5	3.7	4.5	214.
4.5	707.	2292.	2.9	2.7	3.9	227.
5.0	800.	2385.	3.7	2.5	4.5	236.
5.5	876.	2461.	4.8	1.1	4.9	257.
6.0	952.	2537.	6.0	1.0	6.1	260.
6.5	1028.	2613.	7.0	0.1	7.0	270.
7.0	1104.	2689.	5.2	=0.7	5.2	278.
7.5	1181.	2766.	4.8	=0.9	4.8	280.
8.0	1257.	2842.	3.2	=0.7	3.2	282.
8.5	1333.	2918.	2.6	=0.7	2.7	286.
9.0	1409.	2994.	2.4	=1.1	2.6	295.
9.5	1485.	3070.	2.2	=2.4	3.3	319.
0.0	1562.	3147.	2.9	=4.0	4.9	324.
0.5	1638.	3223.	3.2	=5.6	7.3	334.
1.0	1714.	3299.	2.4	=8.0	8.4	344.
1.5	1790.	3375.	1.2	=9.1	9.2	352.
2.0	1866.	3451.	=0.5	=8.3	8.3	3.

UTAH DAUB ELEV 1585 METERS SOUNDING ID 3699

E 12/28/76 TIME 13:00 ST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	U/T M/S	V/T M/S	W/T FPSF	WS M/S	WD DEG
	SFC		5.39		0.0		1.5	315.
0.9	150.	1735.	3.09	-2.30	-0.37	2.56	1.9	274.
1.8	300.	1885.	3.52	-0.93	-1.56	1.27	2.0	126.
2.5	415.	2000.	4.16	-0.29	1.66	4.59	1.3	58.
3.1	500.	2085.	3.53	1.00	-0.74	2.19	1.0	287.
3.8	315.	2500.	5.43	-0.21	0.74	5.57	6.5	228.
4.5	1415.	3000.	-0.33	-4.53	-1.50	1.43	5.3	244.
4.7	2315.	4000.	-1.86	-3.75	-3.51	-0.58		
5.6	3415.	5000.	-7.09	-2.23	-5.83	-0.00		

UTAH DAUB ELEV 1585 METERS SOUNDING ID 3699

E 12/28/76 TIME 14:04 ST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

IME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
.0	0.	1585.	1.1	-1.1	1.5	315.
.5	76.	1661.	1.5	-0.8	1.7	242.
.0	173.	1758.	1.9	-0.5	2.0	254.
.5	249.	1834.	0.7	-2.0	2.1	342.
.0	325.	1910.	-0.7	-1.9	2.0	19.
.5	401.	1986.	-0.1	-1.5	1.5	4.
.0	478.	2063.	0.5	-0.4	0.7	309.
.5	554.	2139.	1.4	1.1	1.8	233.
.0	630.	2215.	3.3	2.6	4.2	232.
.5	706.	2291.	3.9	3.5	5.2	228.
.0	801.	2386.	4.5	4.1	5.1	224.
.5	877.	2462.	4.5	4.1	5.1	228.
.0	953.	2538.	5.2	4.5	5.9	229.
.5	1029.	2614.	4.9	4.4	5.6	228.
.0	1119.	2704.	5.4	4.4	5.9	231.
.5	1242.	2827.	5.5	3.3	7.5	259.
.0	1320.	2905.	5.6	2.4	7.1	247.
.5	1396.	2981.	5.7	2.6	7.3	245.
.0	1473.	3058.	5.7	3.2	7.5	241.
.5	1549.	3134.	5.4	3.5	7.4	237.
.0	1644.	3229.	6.8	4.7	8.2	235.
.5	1730.	3315.	7.2	2.0	7.5	254.
.0	1807.	3392.	8.8	0.2	8.8	269.
.5	1883.	3468.	10.9	1.9	11.1	280.
.0	1959.	3544.	11.1	1.8	11.2	281.

UTAH [illegible] ELEV 1585 METERS SOUNDING ID 3597

E 12/30/76 TIME 07:36MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T 500	D/T 3000M	D/T LAPSE	WS M/S	WD DEG
	SFC		=13.05		0.0		1.0	135.
1.0	150.	1735.	=9.51	3.74	11.00	13.93	0.8	116.
2.0	300.	1885.	=3.35	5.67	5.10	9.03	1.8	195.
2.7	415.	2000.	=1.90	1.65	2.08	5.01	3.1	206.
3.3	500	2085.	=1.15	0.34	1.51	4.44	4.6	194.
3.5	* 533	2118	=1.13		1.51	4.44		
4.0	915.	2500.	=1.41	=0.17	=1.52	1.41	6.3	239.
9.3	1915.	3500.	=3.92	=2.01	=0.57	2.36	13.8	271.
5.8	2415.	4000.	=10.25	=5.55	=2.33	0.60		
2.8	3415.	5000.	=17.04	=6.76	=2.56	0.36		
3.5	4415.	6000.	=25.04	=9.00	=3.41	=0.48		

UTAH [illegible] ELEV 1585 METERS SOUNDING ID 3597

E 12/30/76 TIME 07:36MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	1585.	=0.7	0.7	1.0	135.
0.5	74.	1661.	0.2	=0.2	0.3	313.
1.0	152.	1737.	=0.7	0.3	0.8	110.
1.5	229.	1814.	0.0	3.3	3.3	186.
2.0	305.	1890.	0.5	1.6	1.6	195.
2.5	381.	1966.	1.7	2.1	2.7	219.
3.0	457.	2042.	0.6	3.5	3.6	190.
3.5	533.	2118.	1.6	5.1	5.4	197.
4.0	610.	2195.	3.2	6.5	7.3	206.
4.5	686.	2271.	4.2	5.6	7.0	217.
5.0	762.	2347.	4.9	4.8	6.9	226.
5.5	838.	2423.	4.8	4.0	6.3	230.
6.0	914.	2499.	5.4	3.3	6.3	239.
6.5	991.	2576.	6.1	1.5	6.3	254.
7.0	1067.	2652.	7.0	1.7	7.2	255.
7.5	1143.	2728.	8.5	=0.2	8.5	269.
8.0	1219.	2804.	10.3	=0.3	10.3	272.
8.5	1295.	2880.	12.7	=0.7	12.7	273.
9.0	1372.	2957.	13.8	=0.3	13.8	271.
9.5	1448.	3033.	13.8	=0.3	13.8	271.
10.0	1524.	3109.	16.9	=1.5	17.0	275.
10.5	1600.	3185.	18.5	=2.1	18.6	276.
11.0	1676.	3261.	16.7	=2.5	16.9	279.
11.5	1753.	3338.	16.2	=2.0	16.3	277.
12.0	1829.	3414.	12.3	=2.7	12.6	283.

UTAH DAMS ELEV 1585 METERS SOUNDING ID 5857

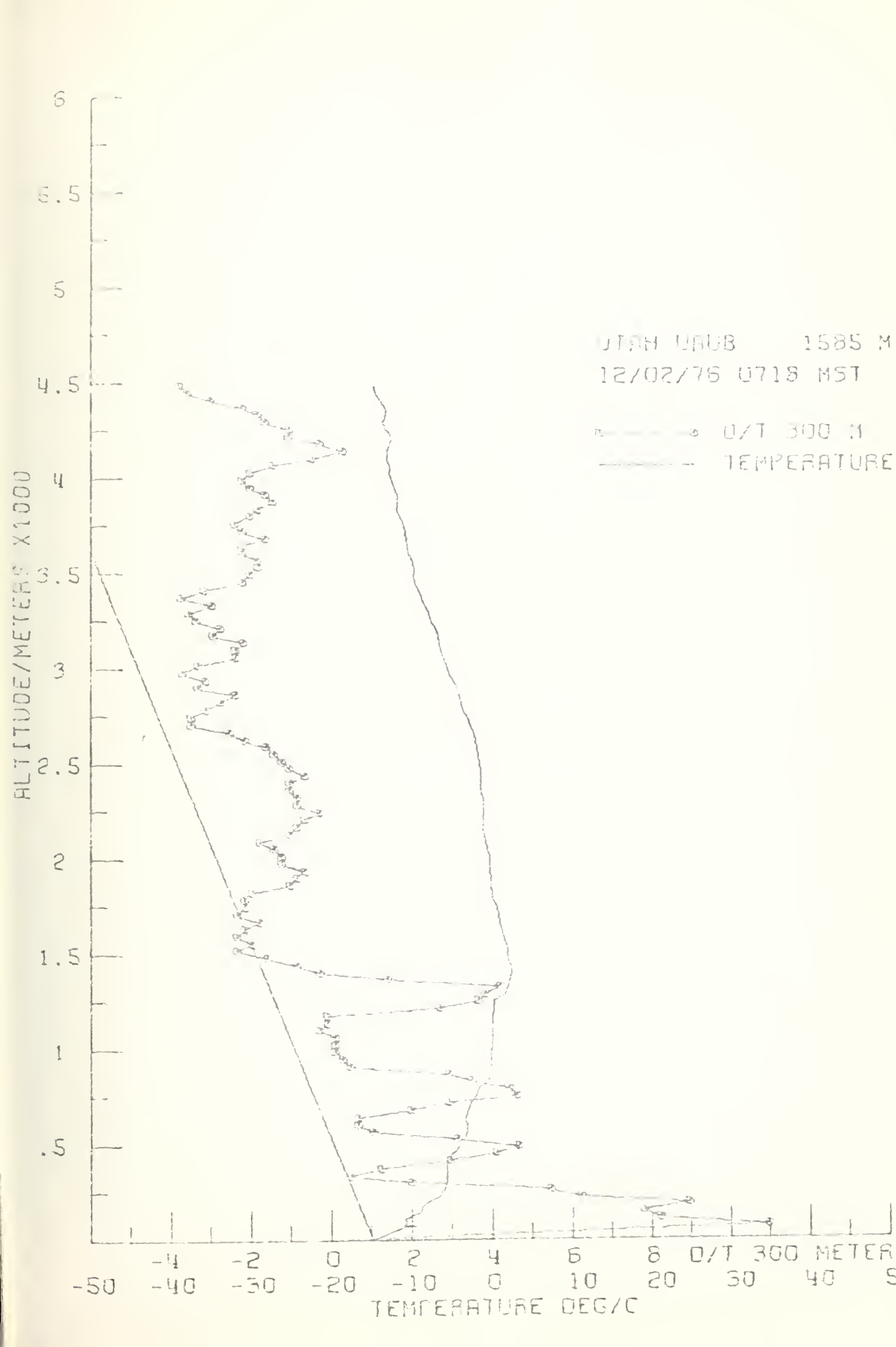
E 12/30/76 TIME 15:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

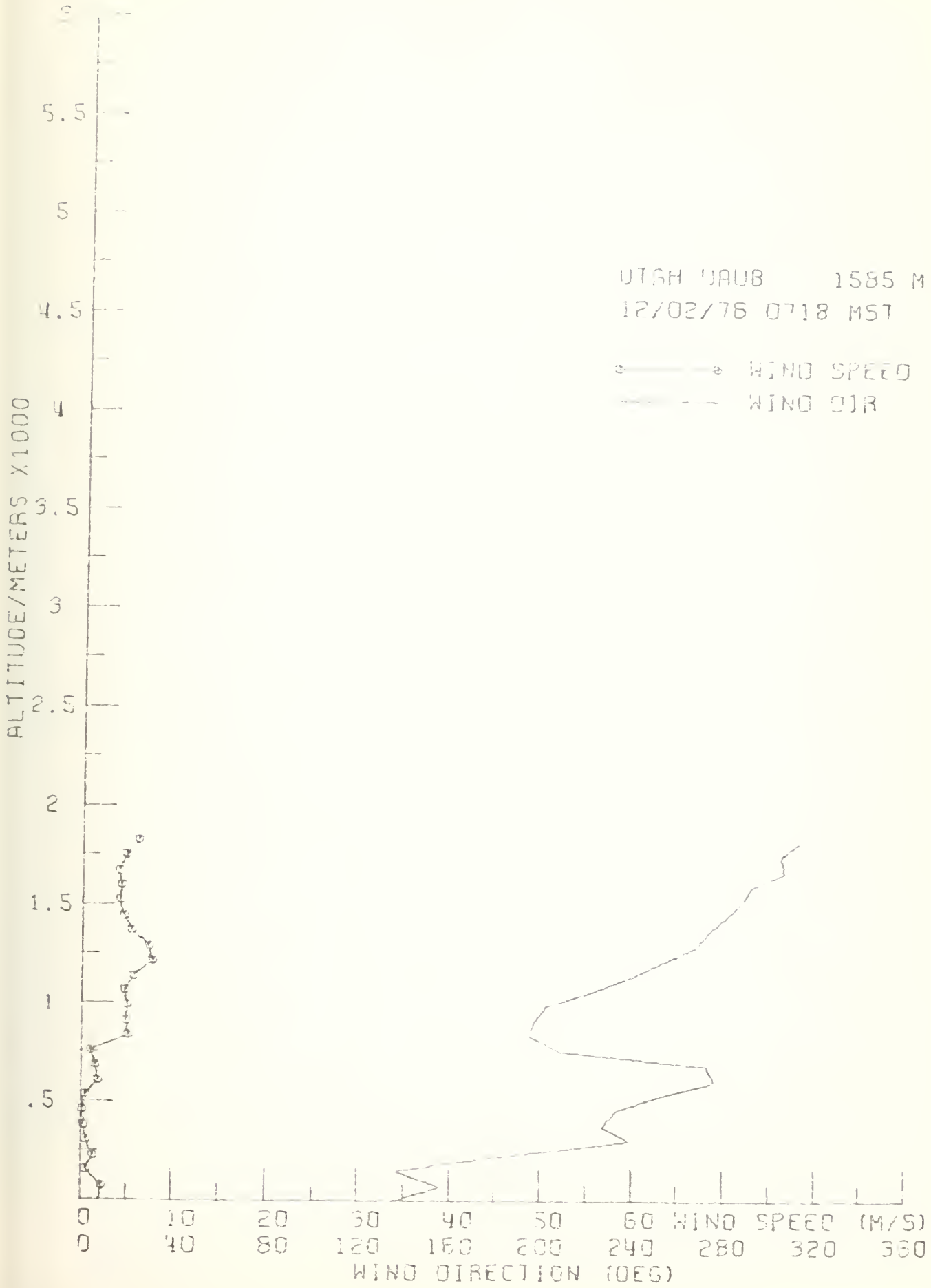
IME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T SOM	D/T LAPSE	WS M/S	WD DEG
	SFC		6.06		6.0		5.1	45.
.2	150	1735	1.72	-2.02	+3.14	-1.21	M	M
1.5	300	1885	1.55	-1.17	+2.58	-0.65	M	M
2.2	415.	2000.	+2.15	+0.87	+3.19	2.74	M	M
2.8	500	2085	+2.13	0.0	0.0	2.93	M	M
3.5	915.	2500.	+0.51	+0.34	+3.19	5.12	M	M
4.7	1415.	3000.	-3.12	-2.81	+0.57	2.36	M	M
5.3	2115.	3700.	-7.51	-4.19	+1.93	1.10		
6.8	3415.	5000.	+14.15	+6.78	0.0	2.95		
8.3	4415.	6000.	+14.65	+4.71	+1.59	1.54		

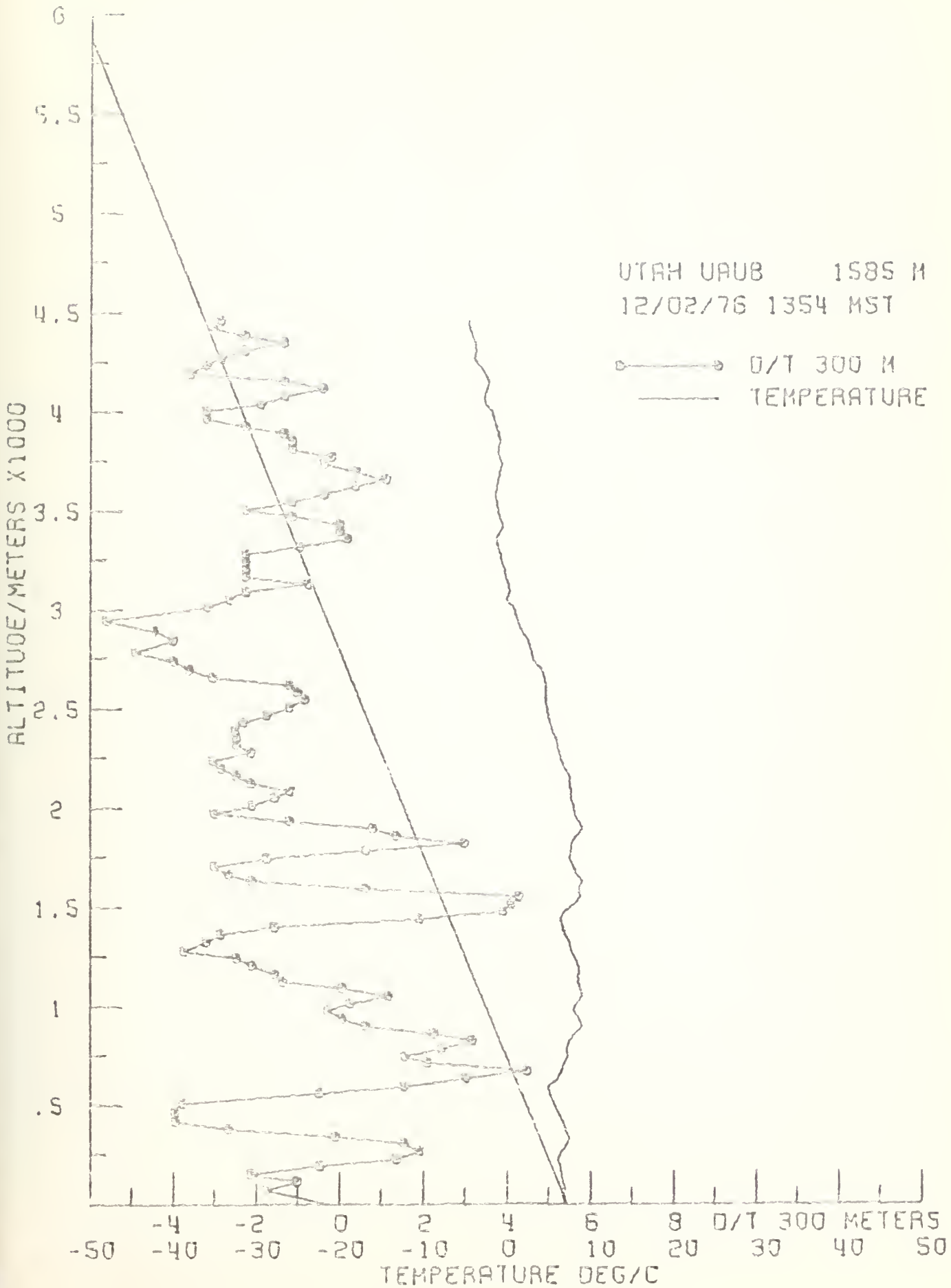
UTAH DAMS ELEV 1585 METERS SOUNDING ID 5857

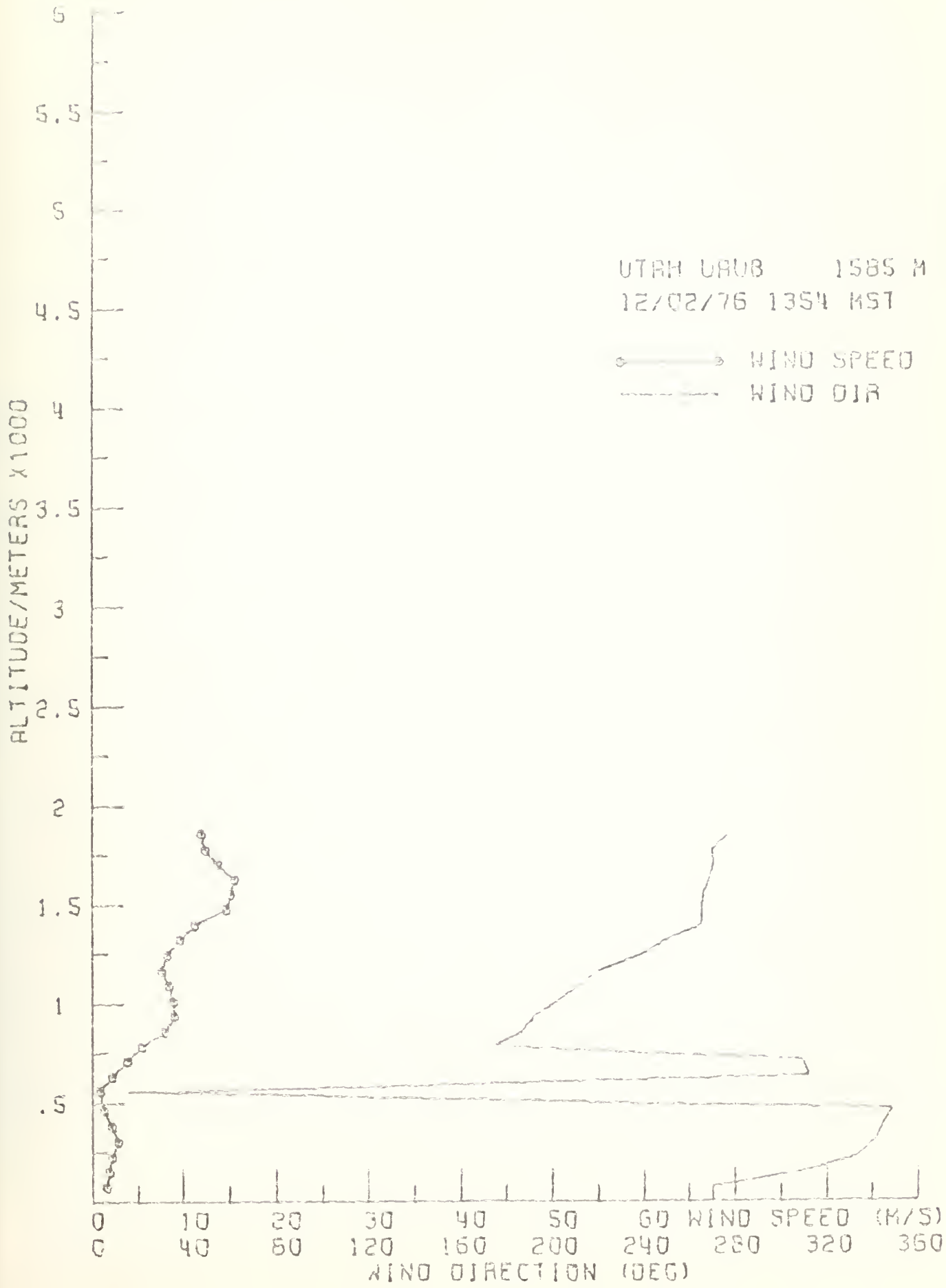
E 12/30/76 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

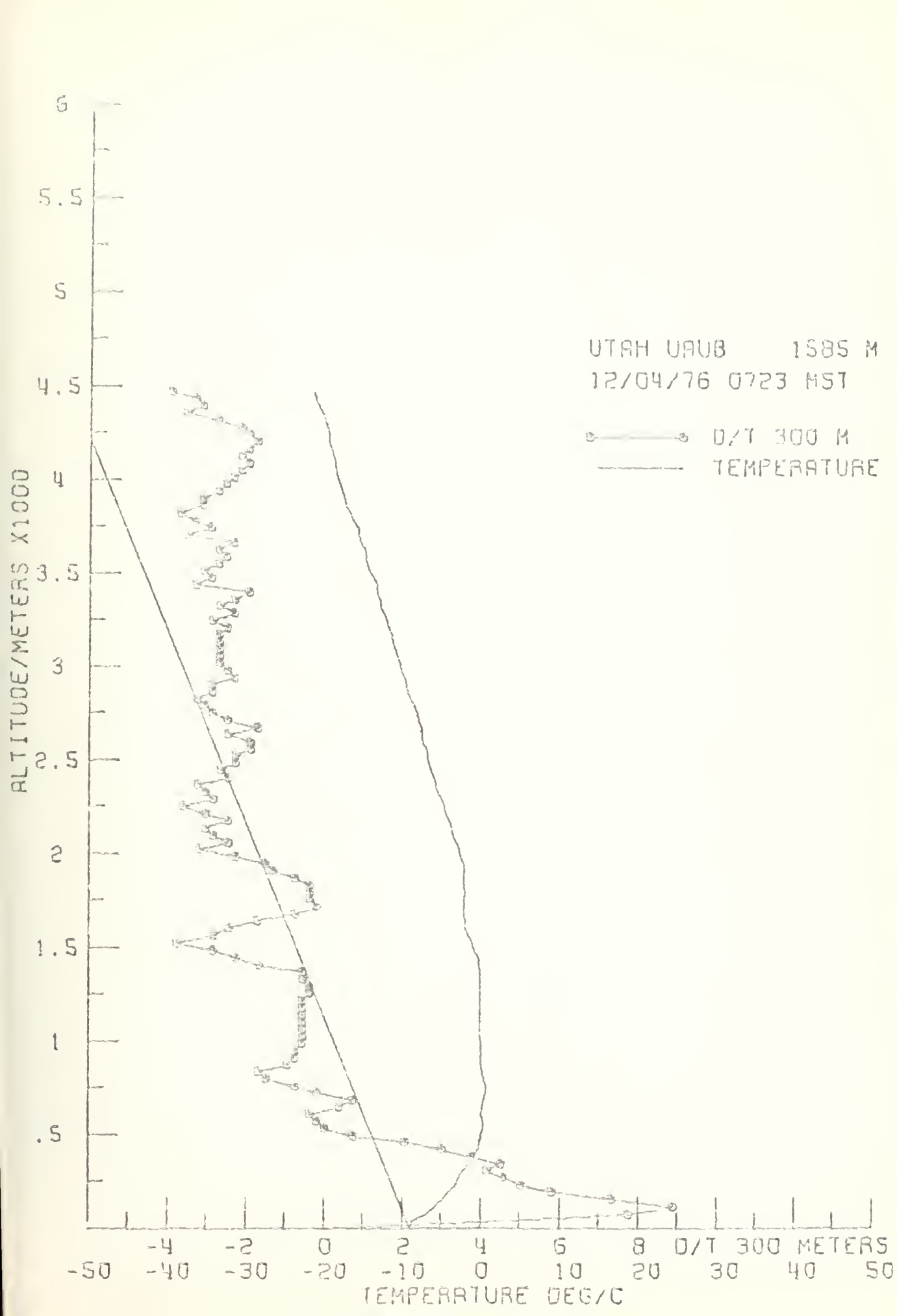
IME IN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WIND SPEED M/S	WIND DIR DEG
.0	0.	1585.	-3.6	-3.6	5.1	45.

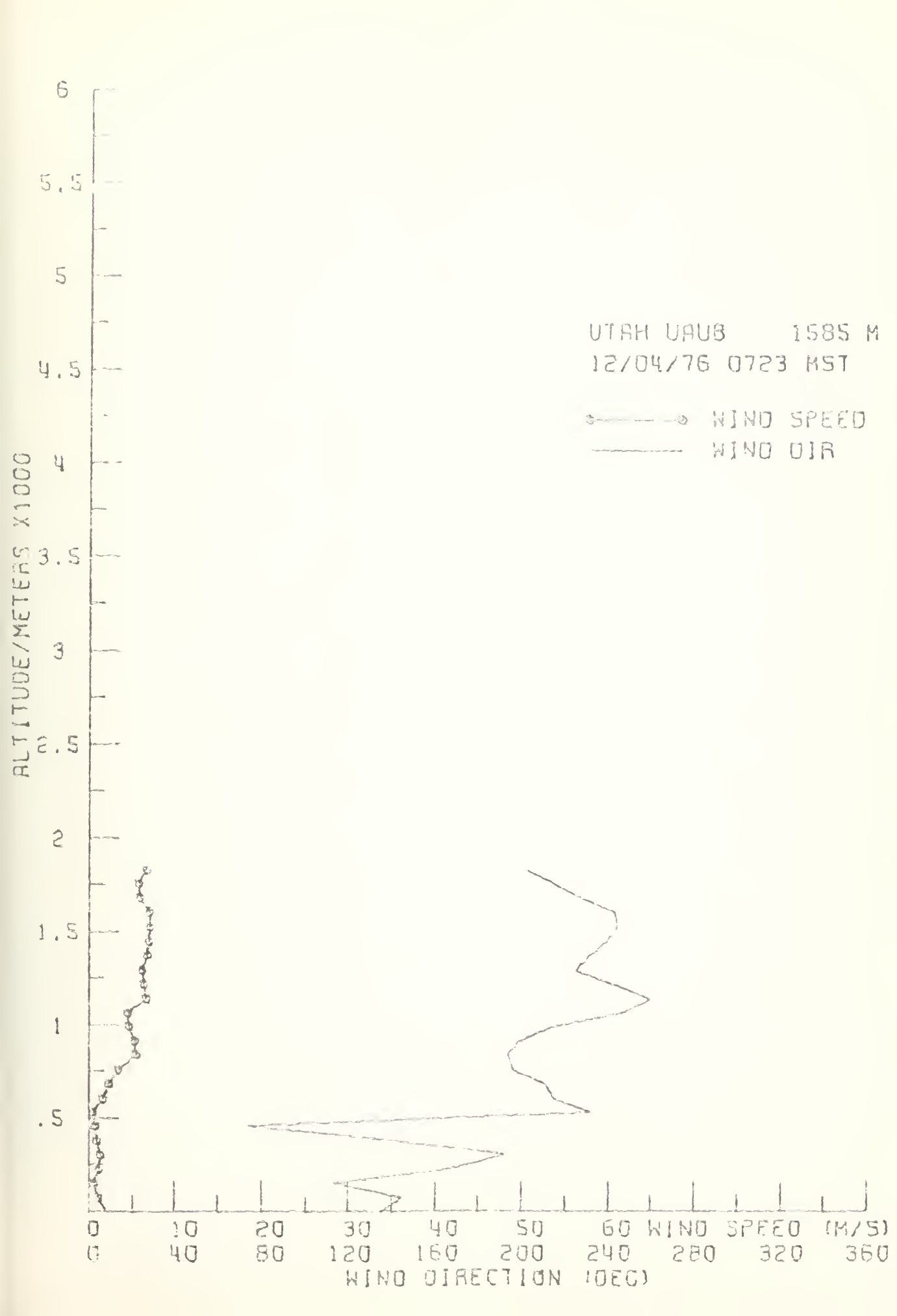

UTAH UBUB 1585 M
12/02/76 0718 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

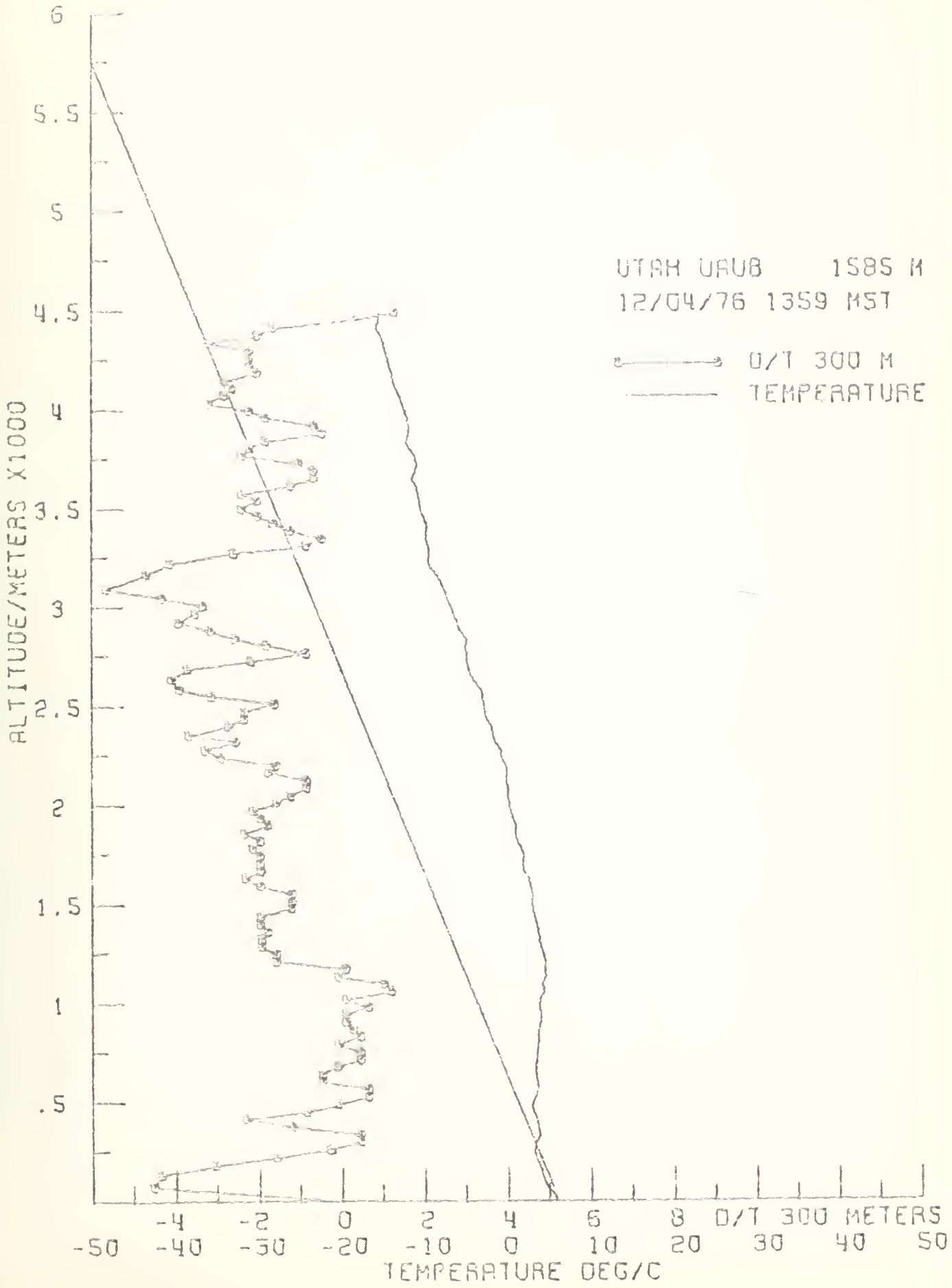

UTAH UAUB 1585 M
12/02/76 0718 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

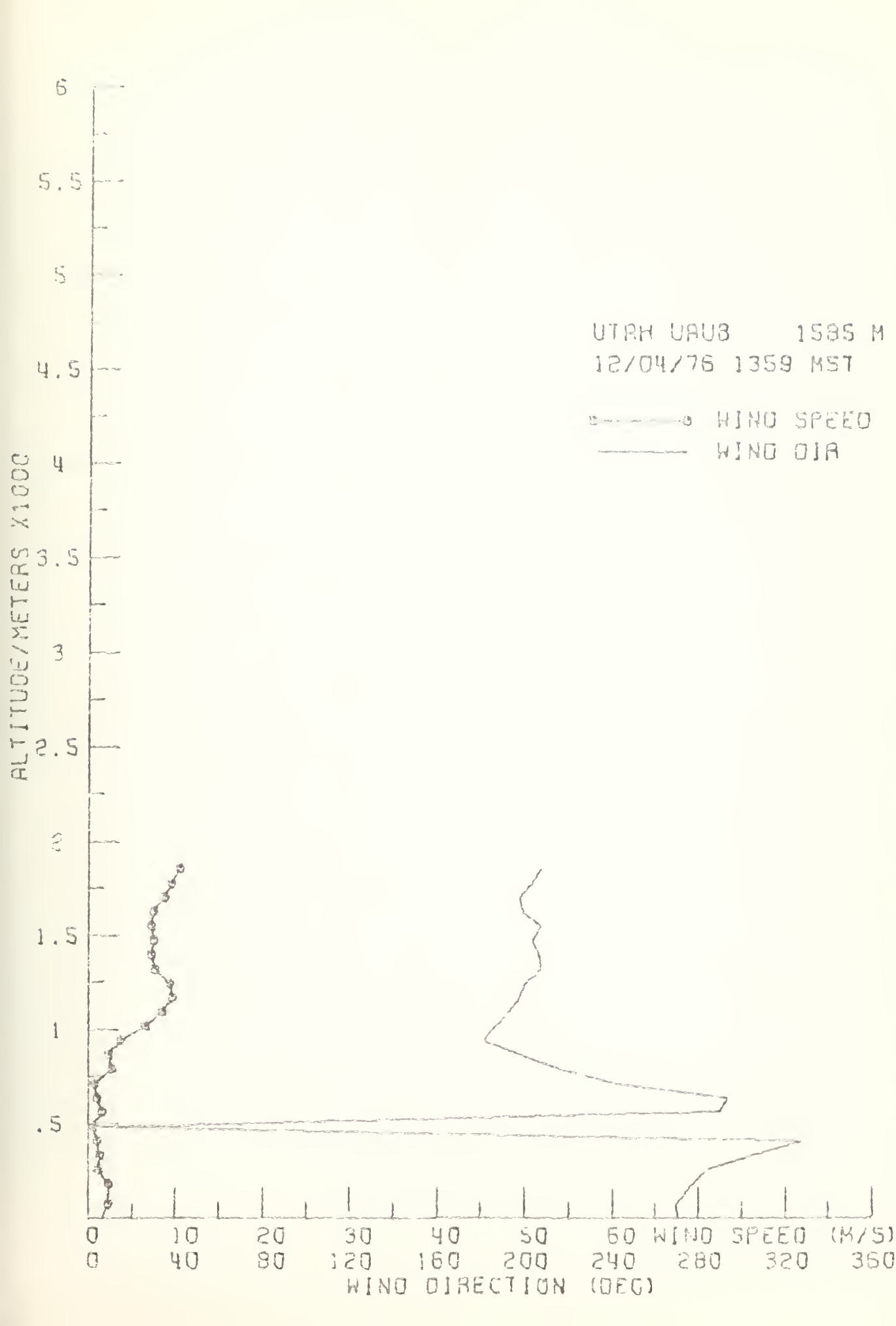

UTAH UAUB 1585 M
12/02/76 1354 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

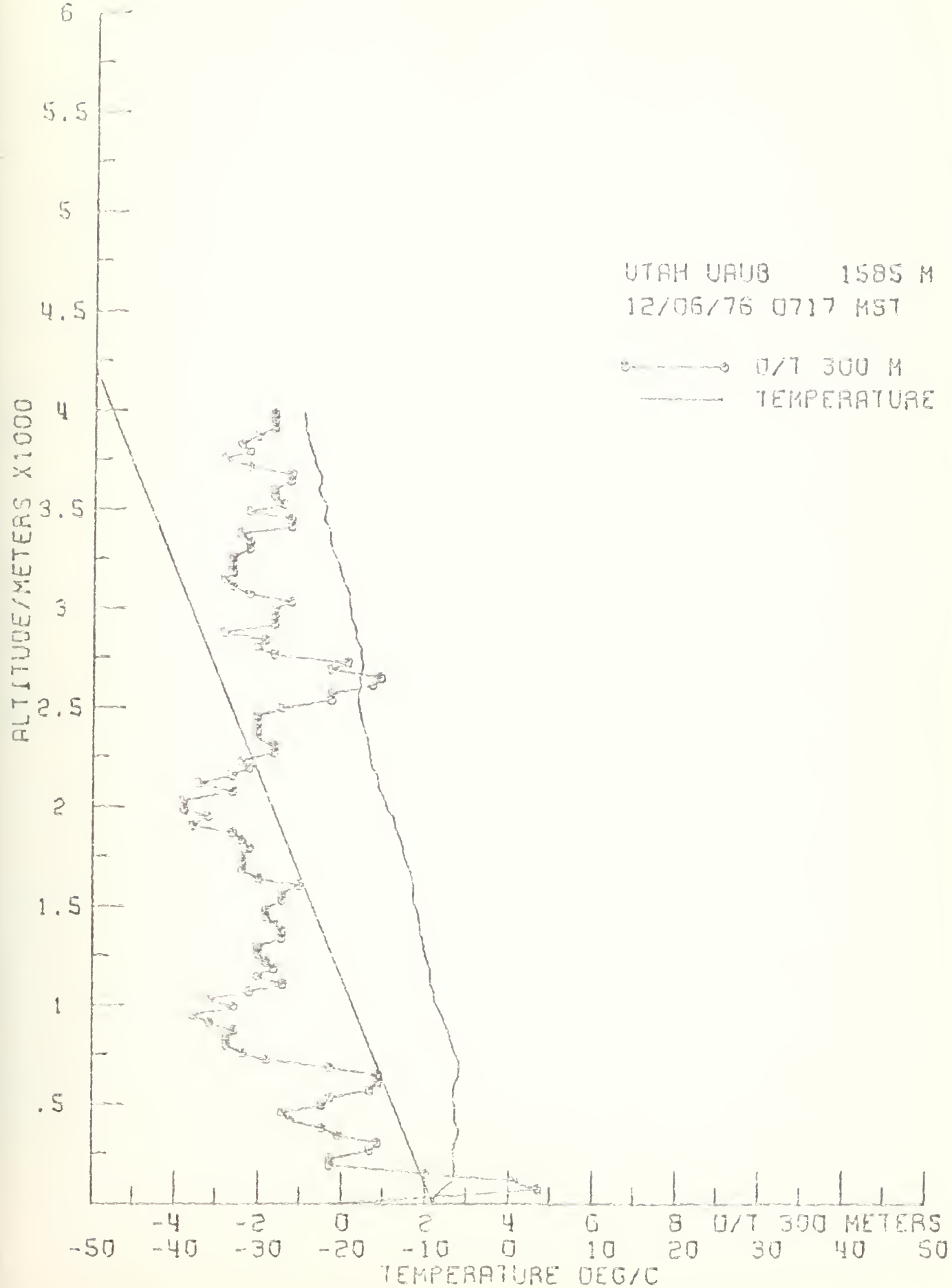

UTAH UAUB 1585 M
12/02/76 1354 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

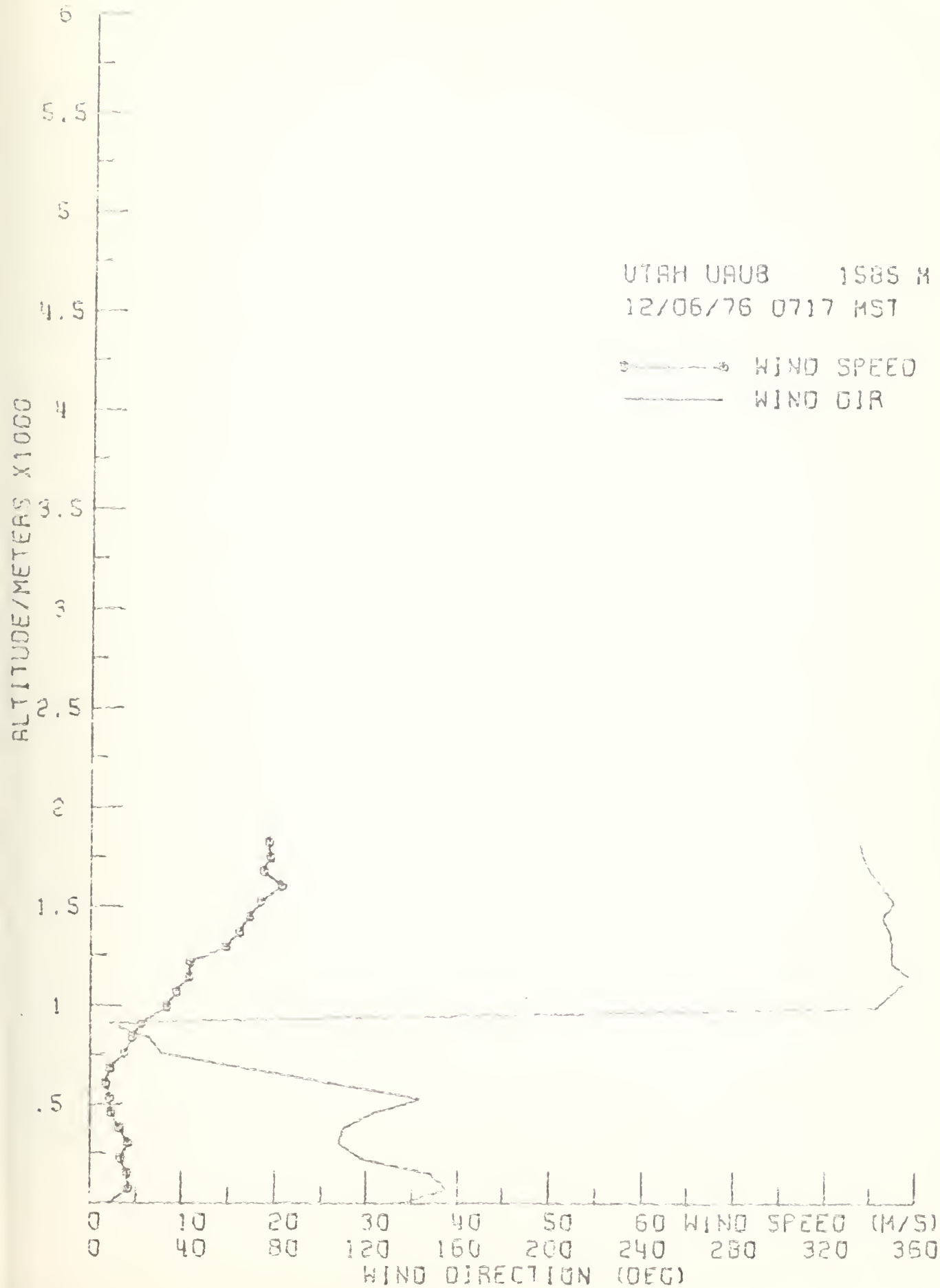

UTAH UAUB 1585 M
12/04/76 0723 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

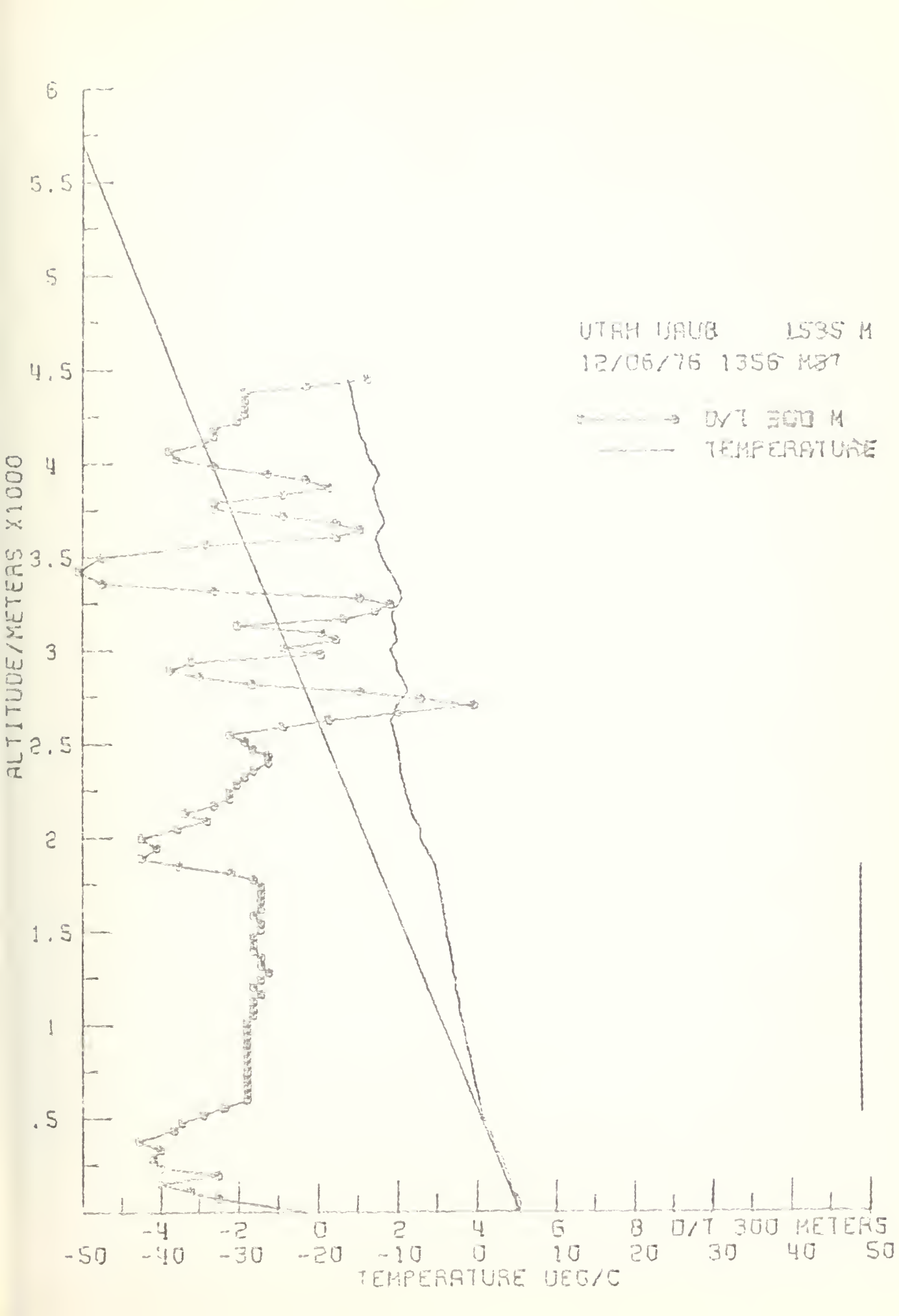

UTAH UAUB 1585 M
12/04/76 0723 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

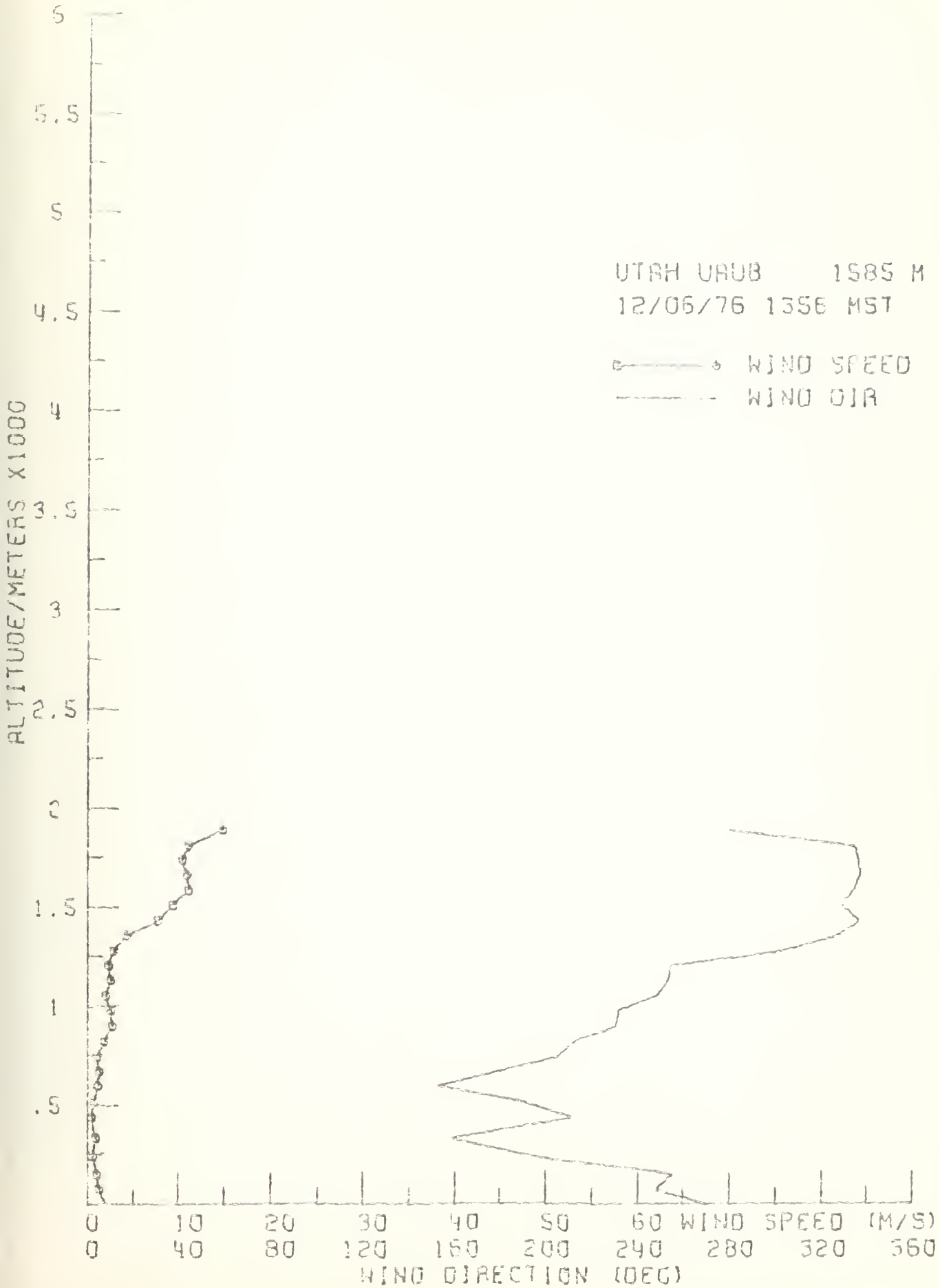

UTAH UAUB 1585 M
12/04/76 1359 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

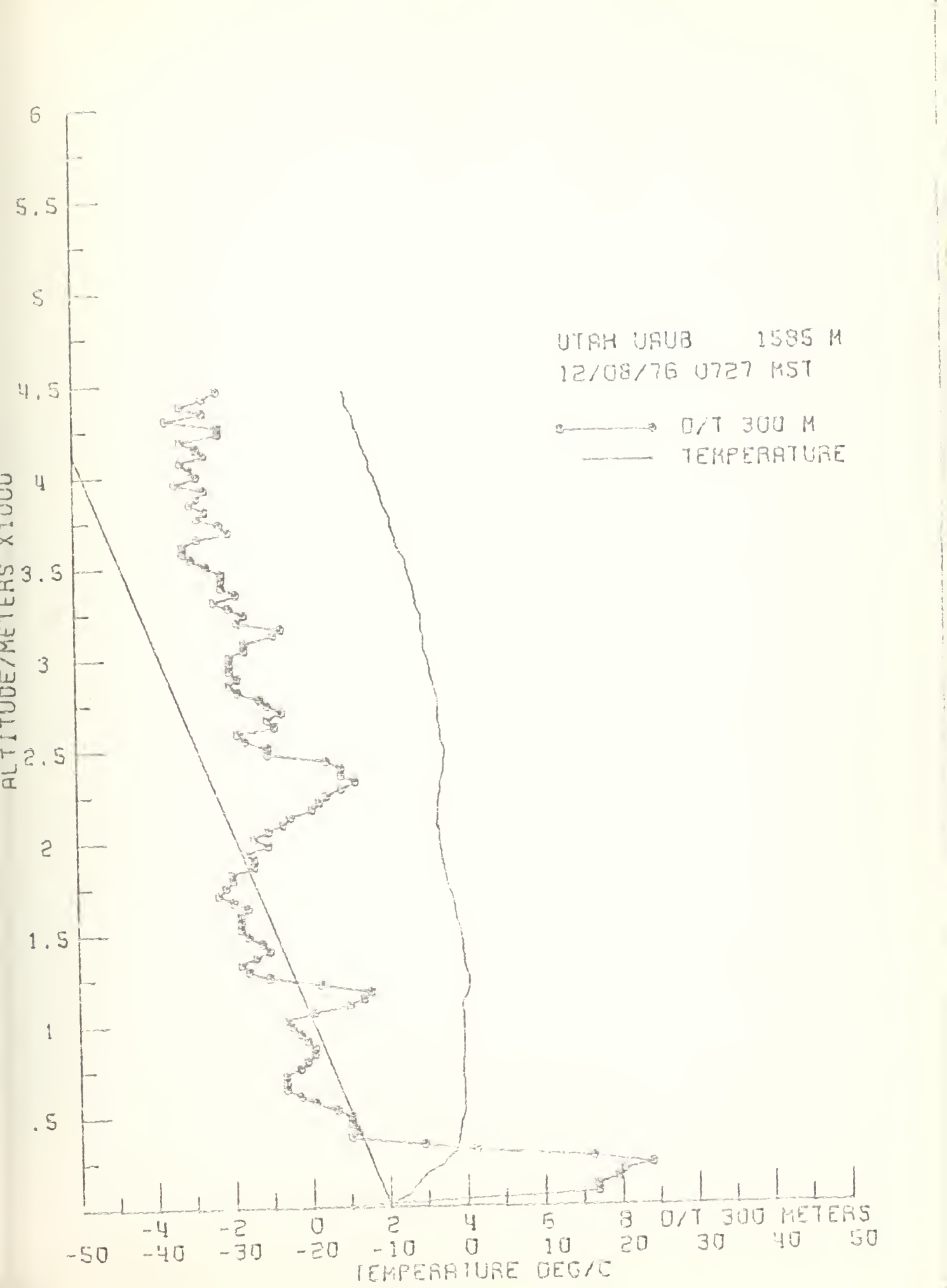

UTRH UAU8 1585 M
12/04/76 1359 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

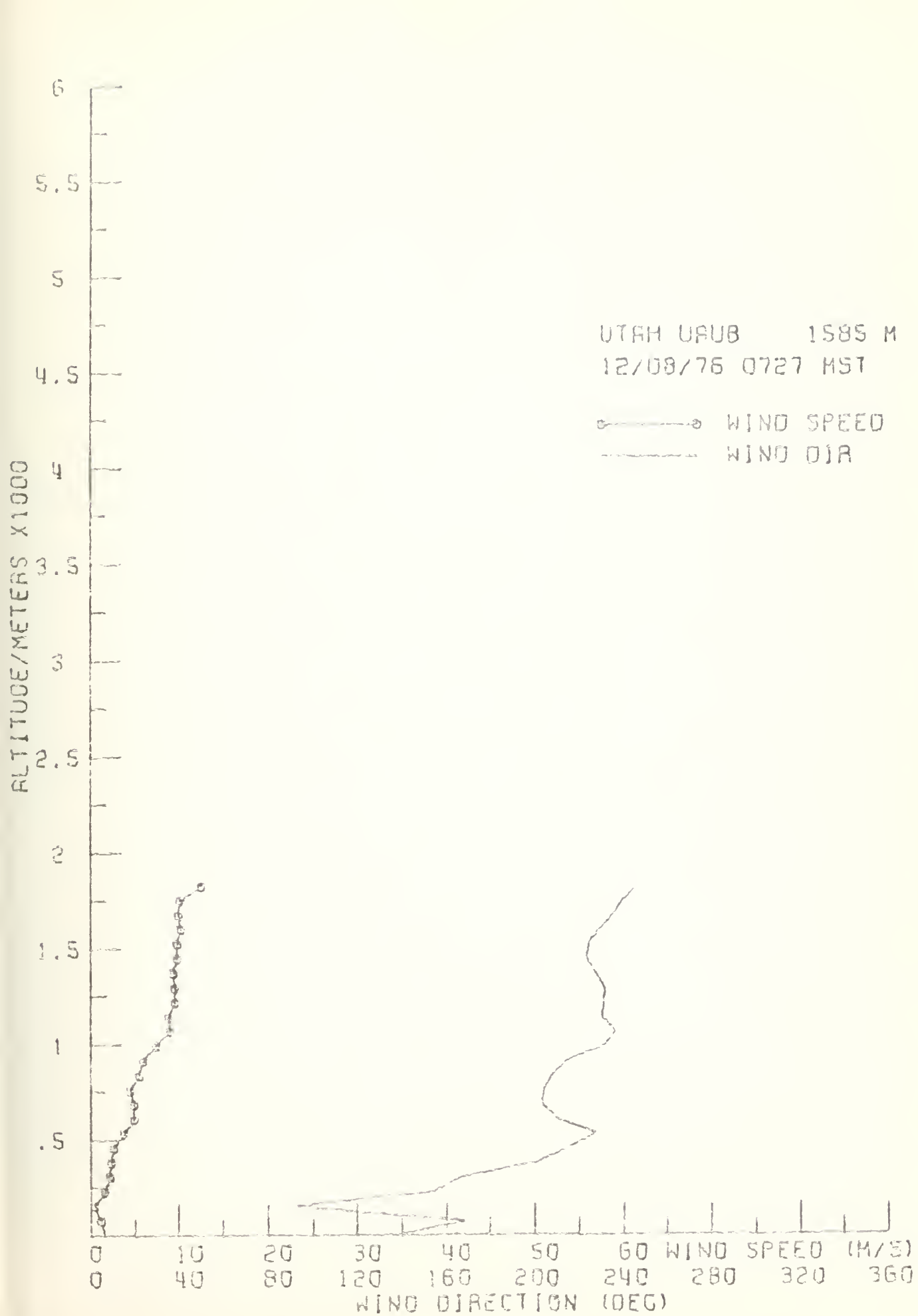

UTAH UAUB 1585 M
12/06/76 0717 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

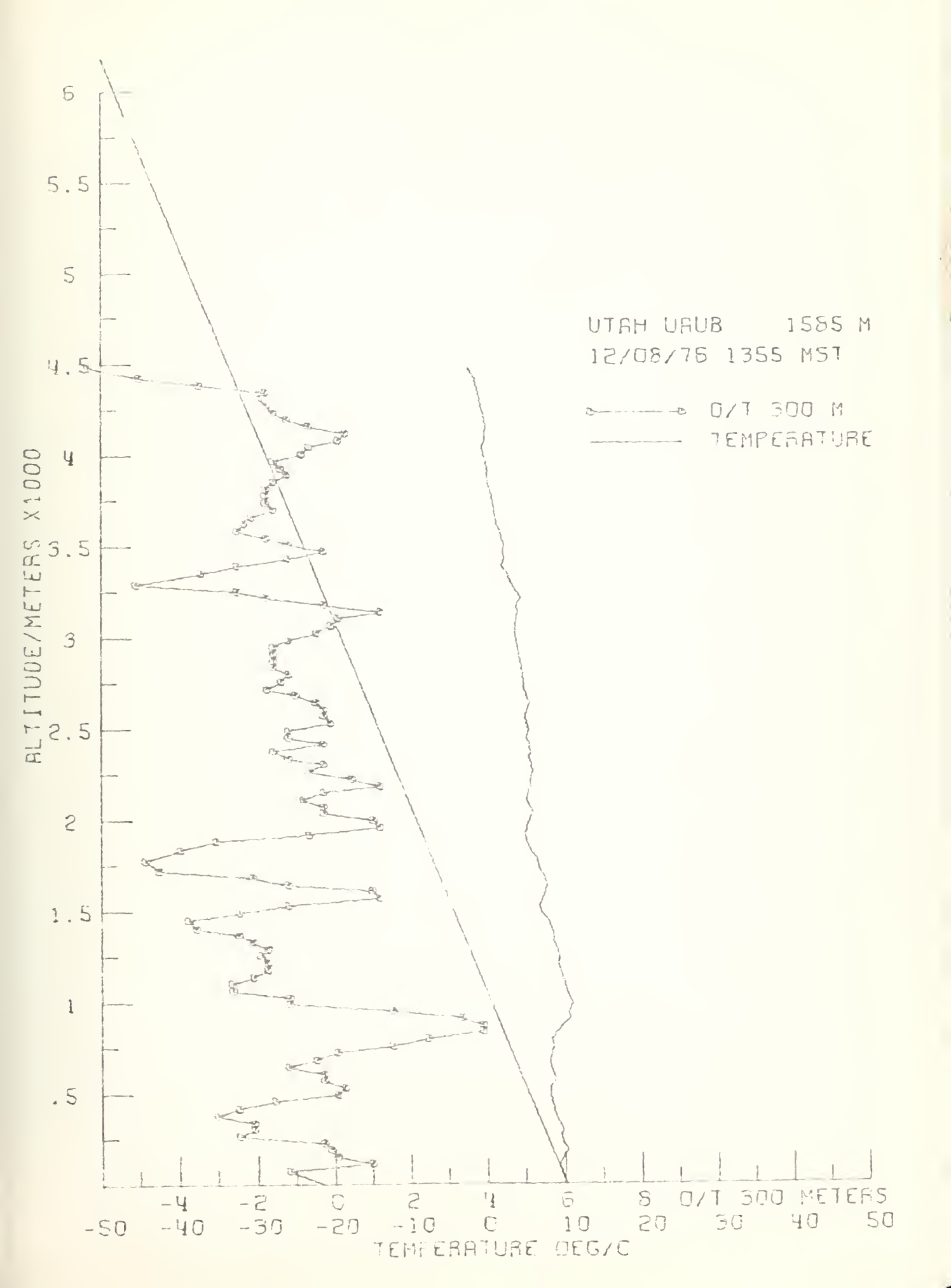

UTAH UAUB 1585 M
12/06/76 0717 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

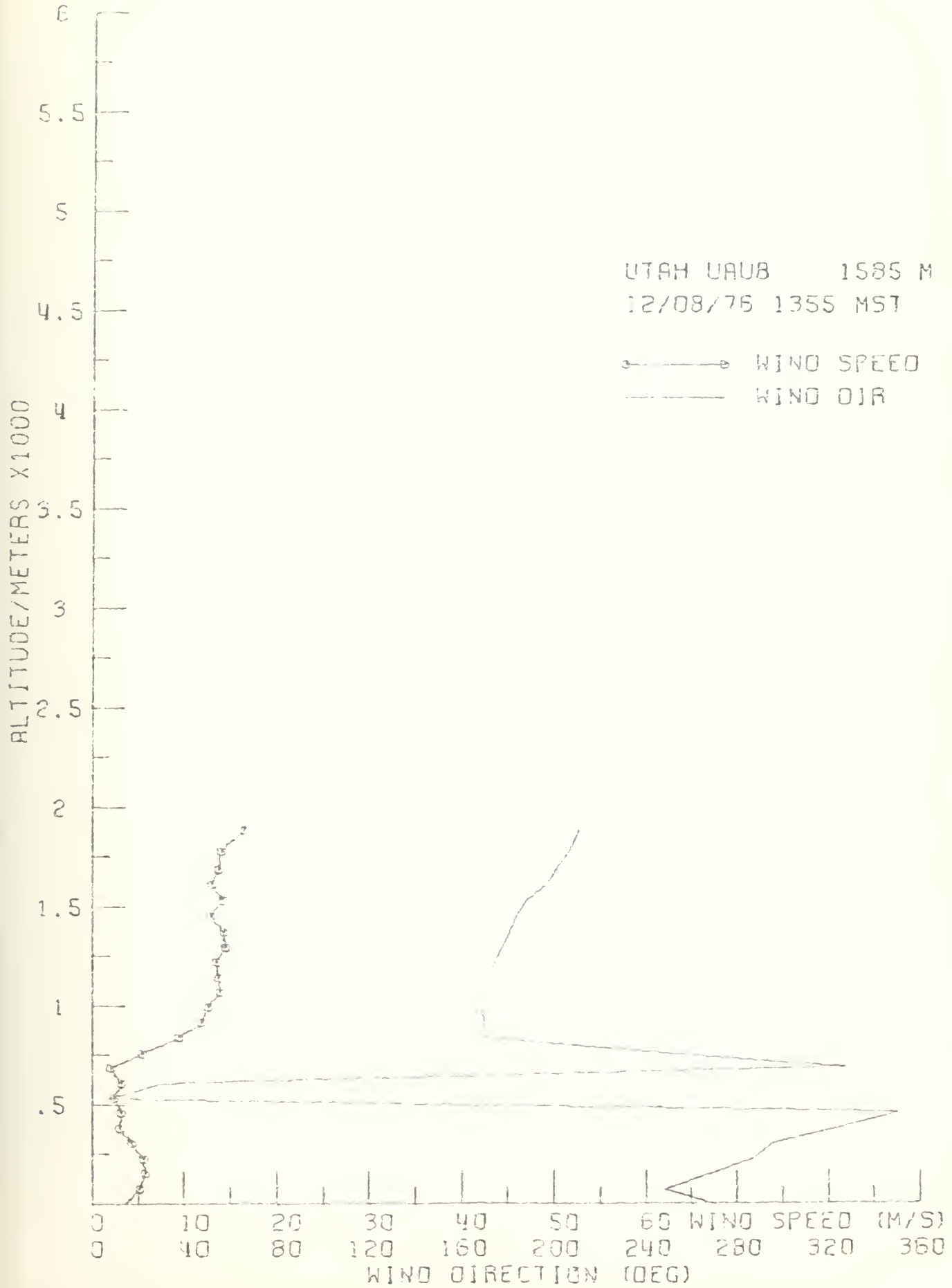

UTAH UAUB LS3S M
12/06/76 1356 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

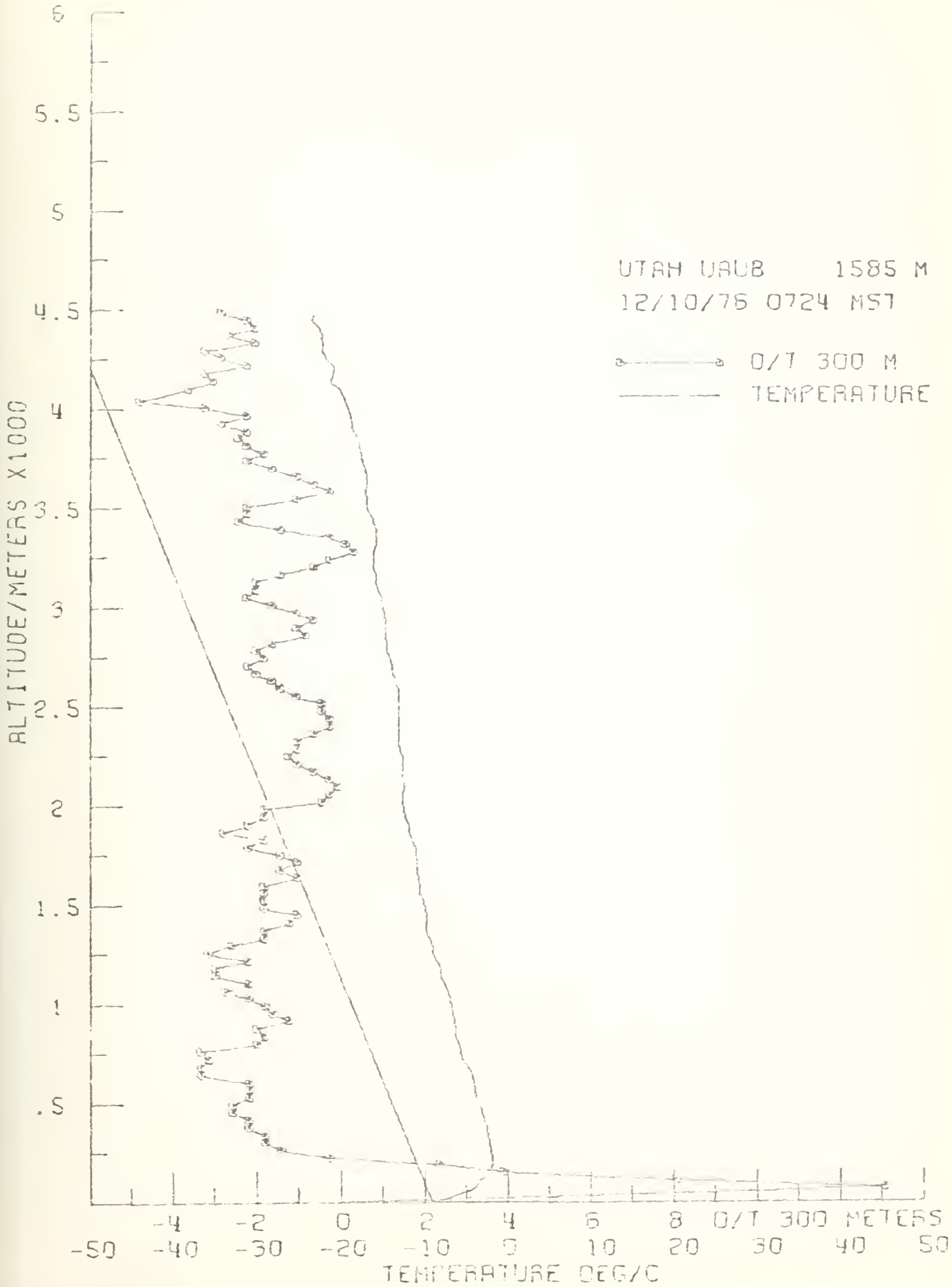

UTAH UAUB 1585 M
12/06/76 1356 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

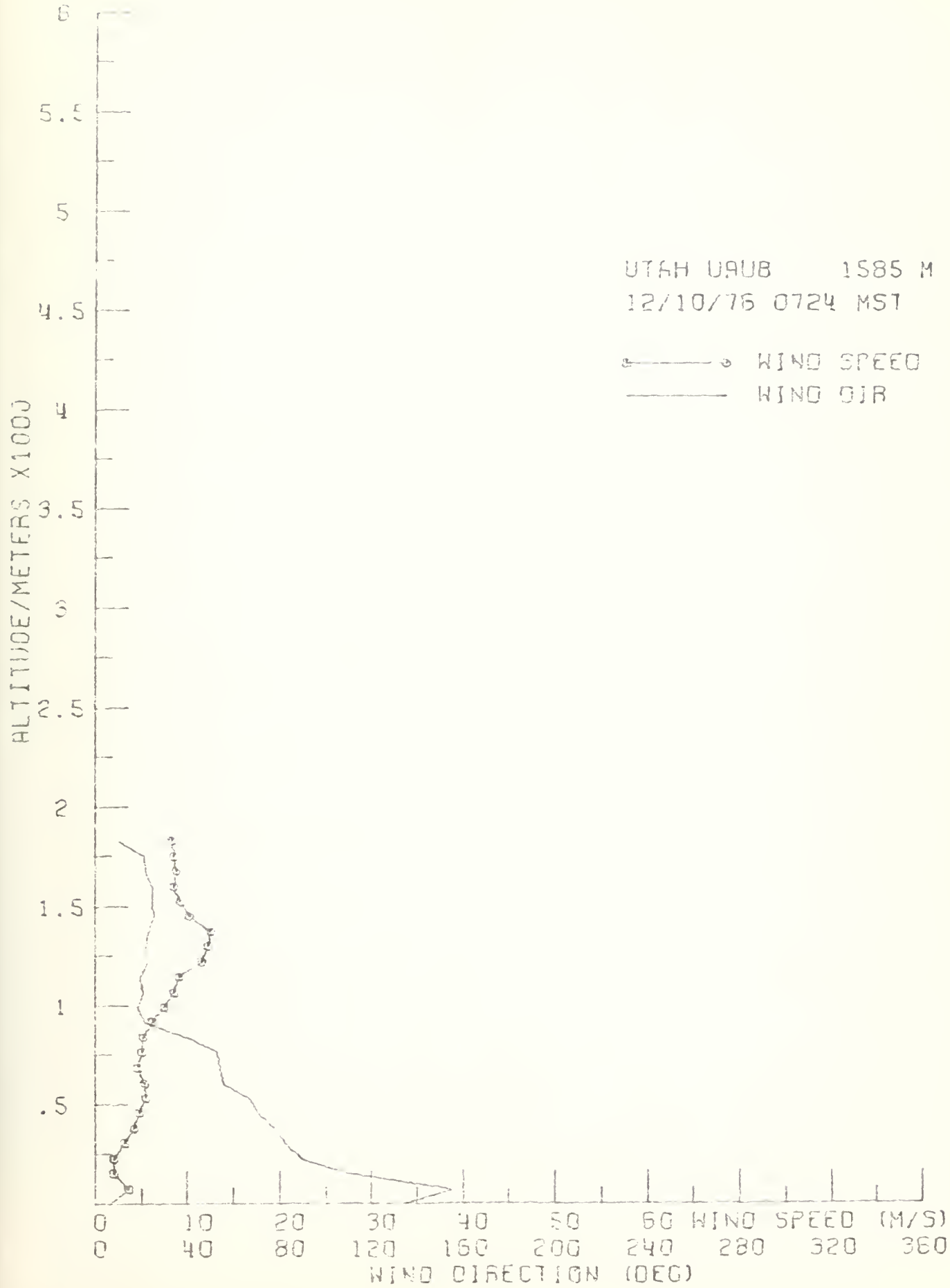

UTAH UAUB 1585 M
12/08/76 0727 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
O/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C

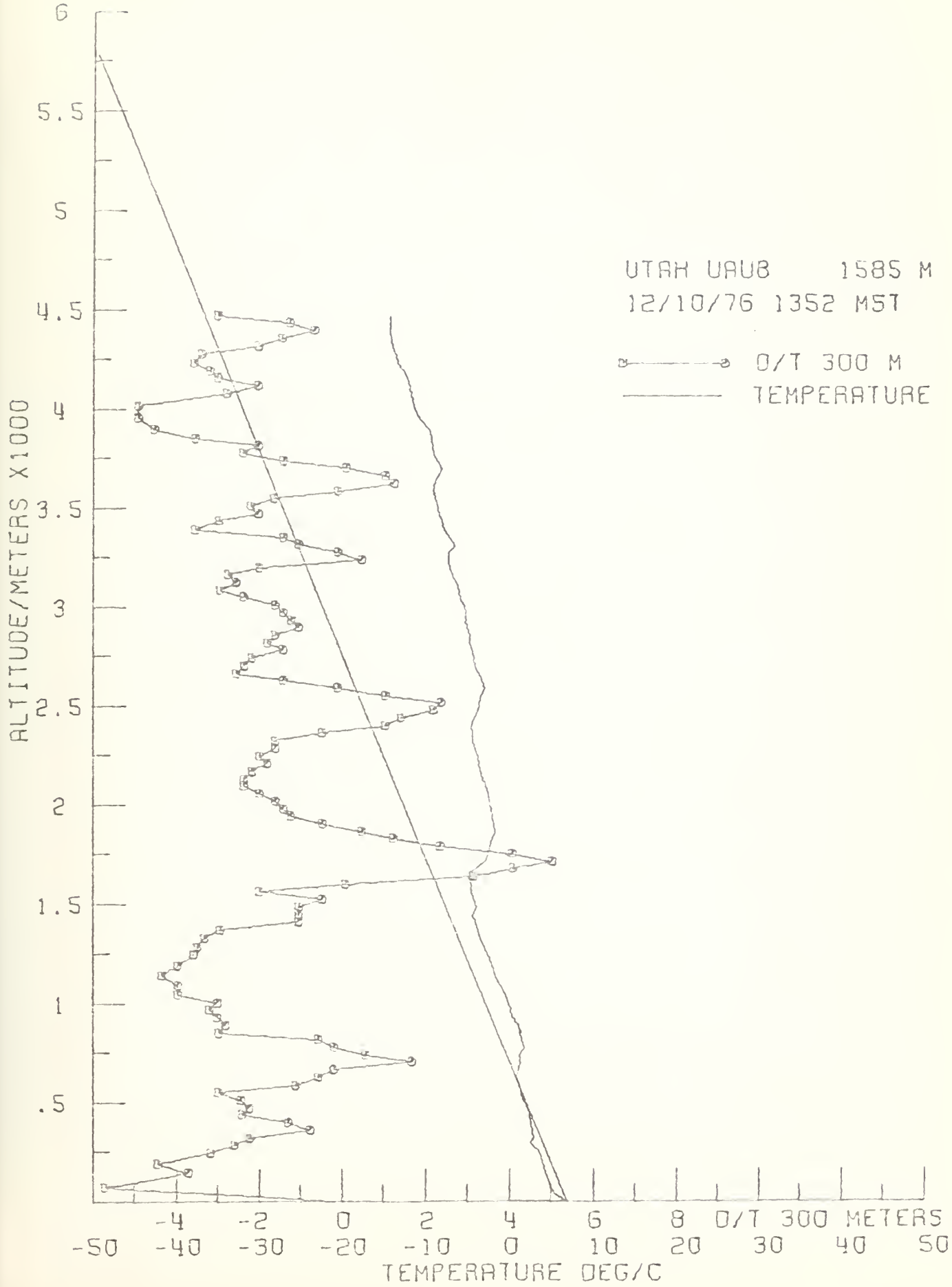

UTAH UAUB 1585 M
12/08/76 0727 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

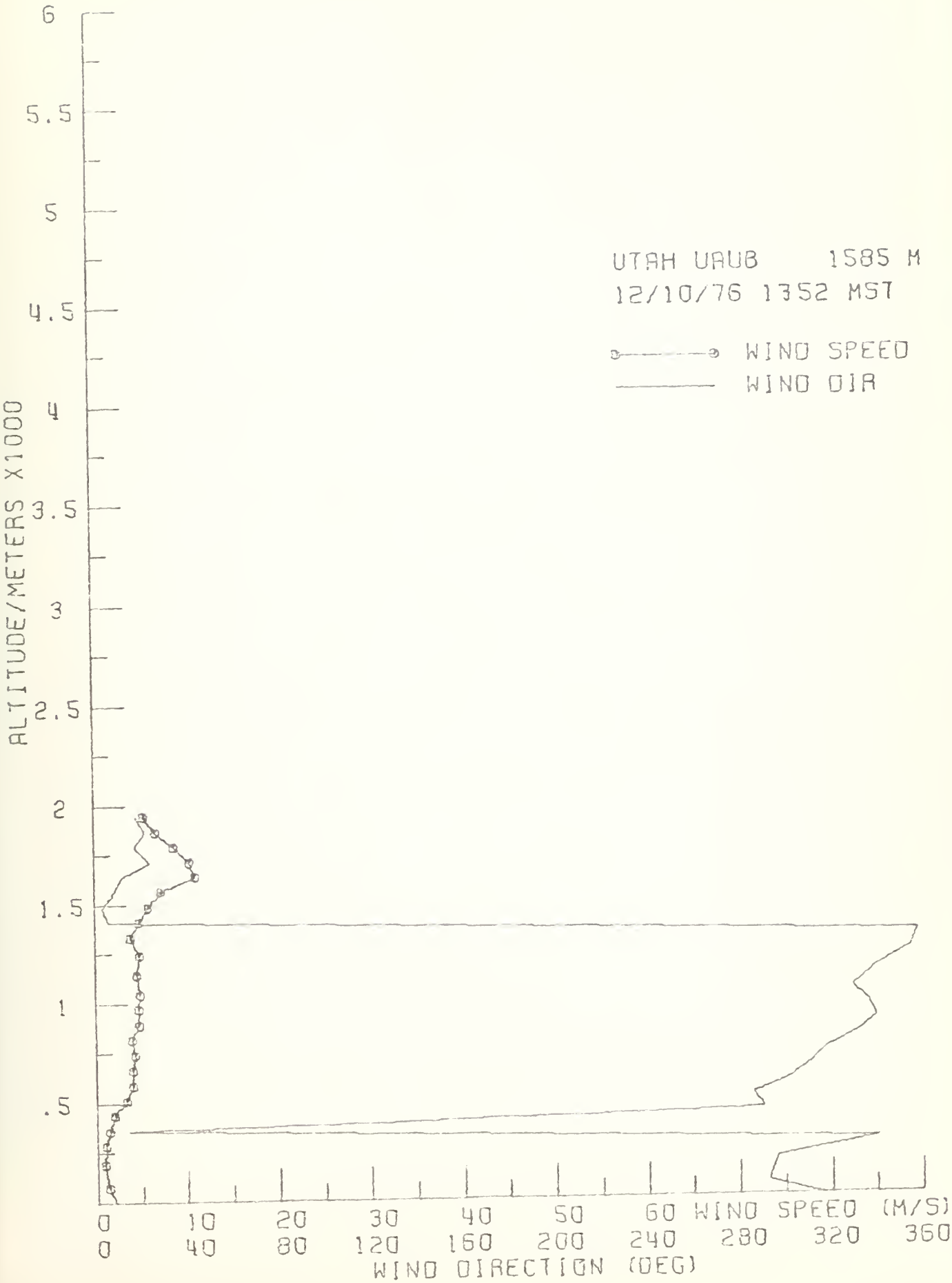

UTAH UAUB 1585 M
12/08/76 1355 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
O/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C

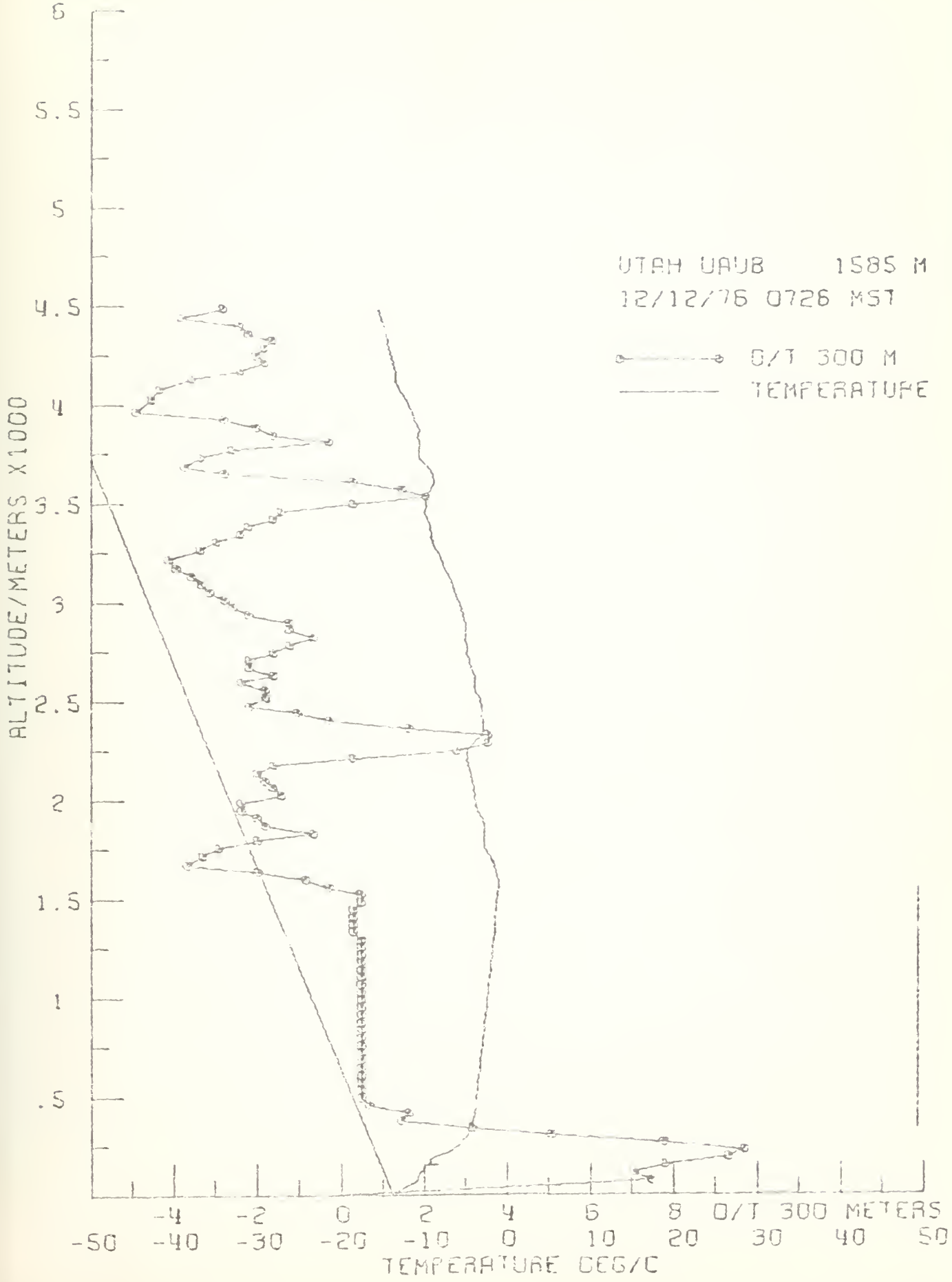

UTAH UAUB 1585 M
12/08/76 1355 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

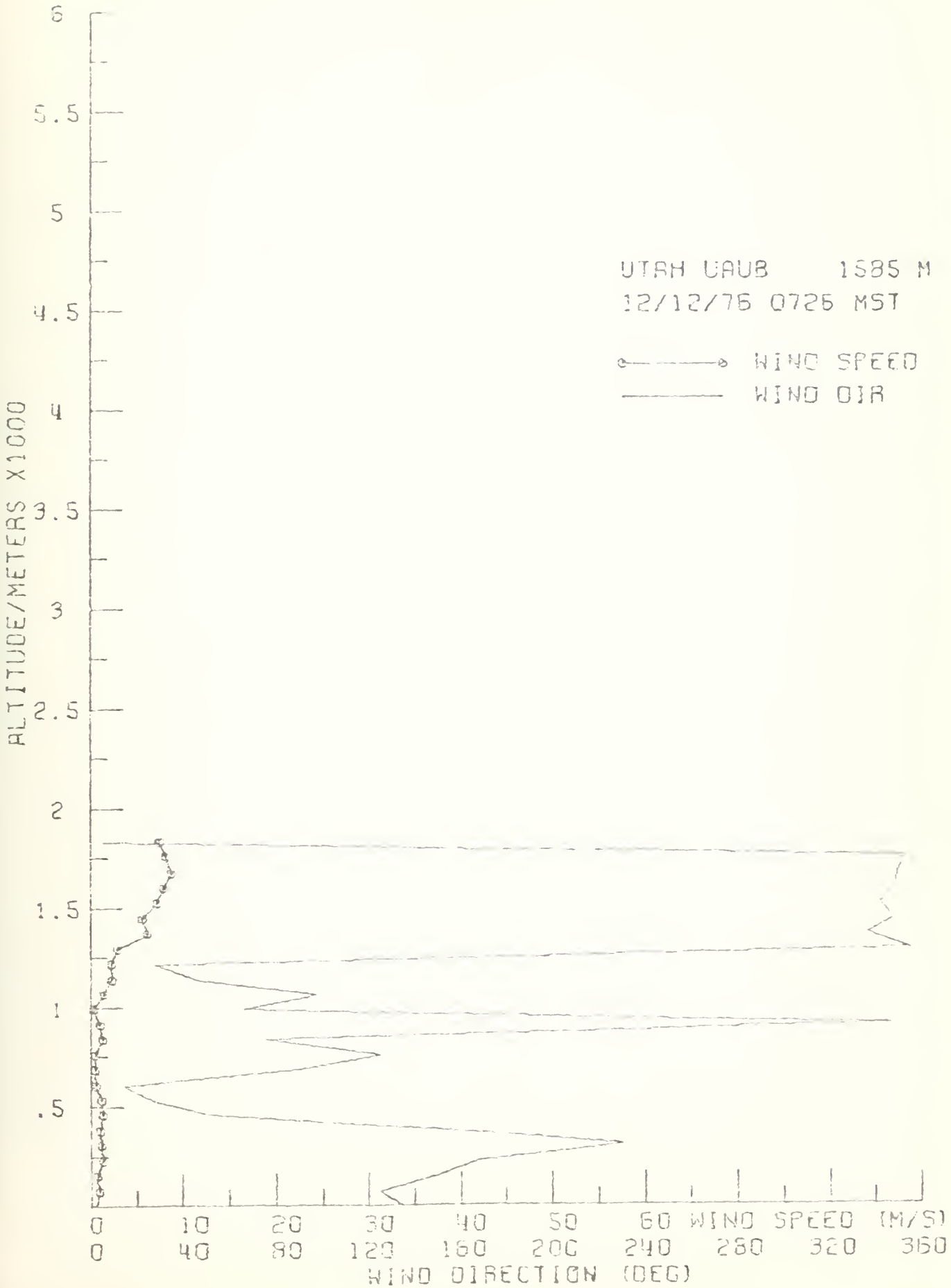

UTAH UAUB 1585 M
12/10/76 0724 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
O/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C

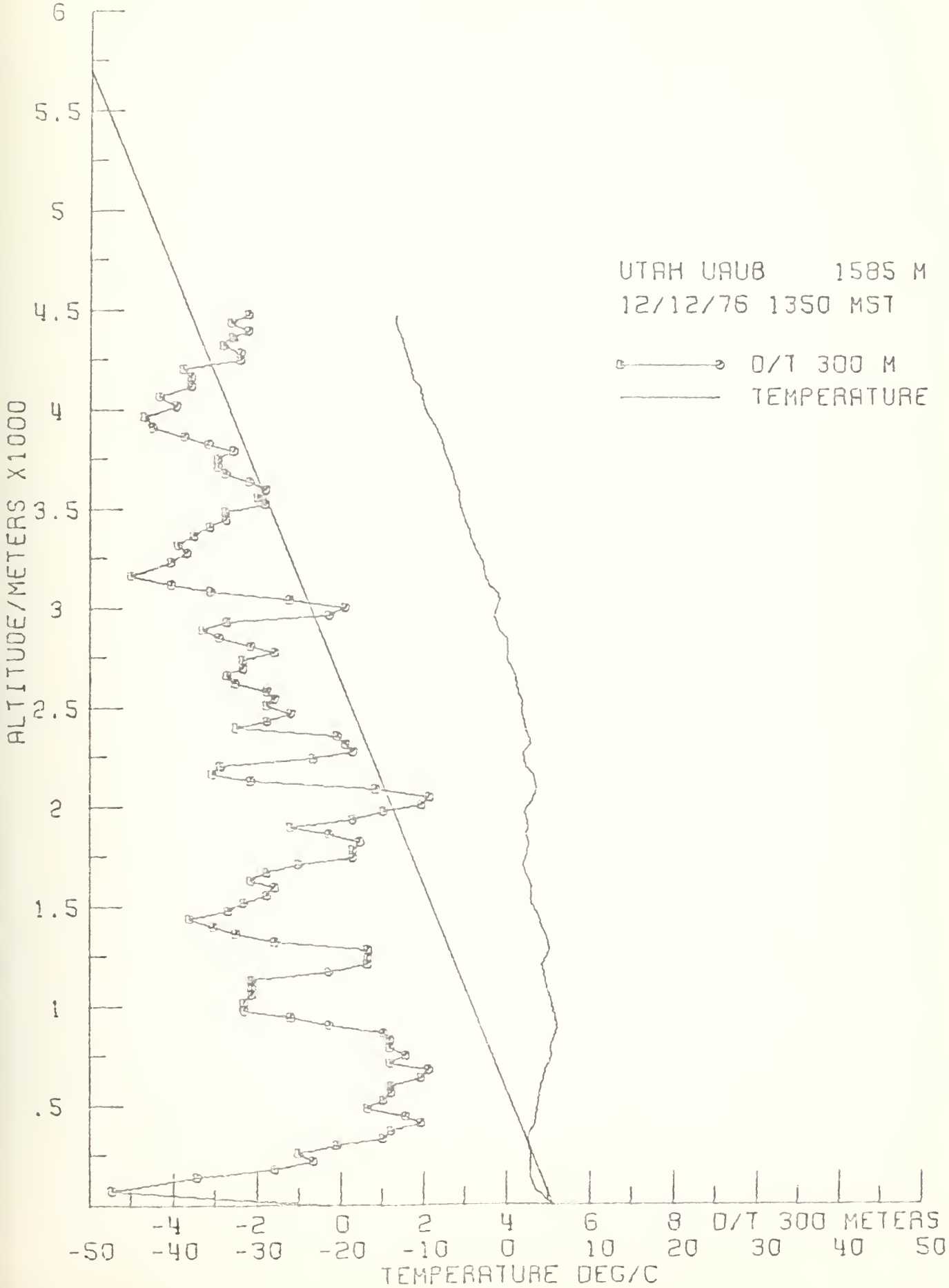

UTAH UAUB 1585 M
12/10/76 0724 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

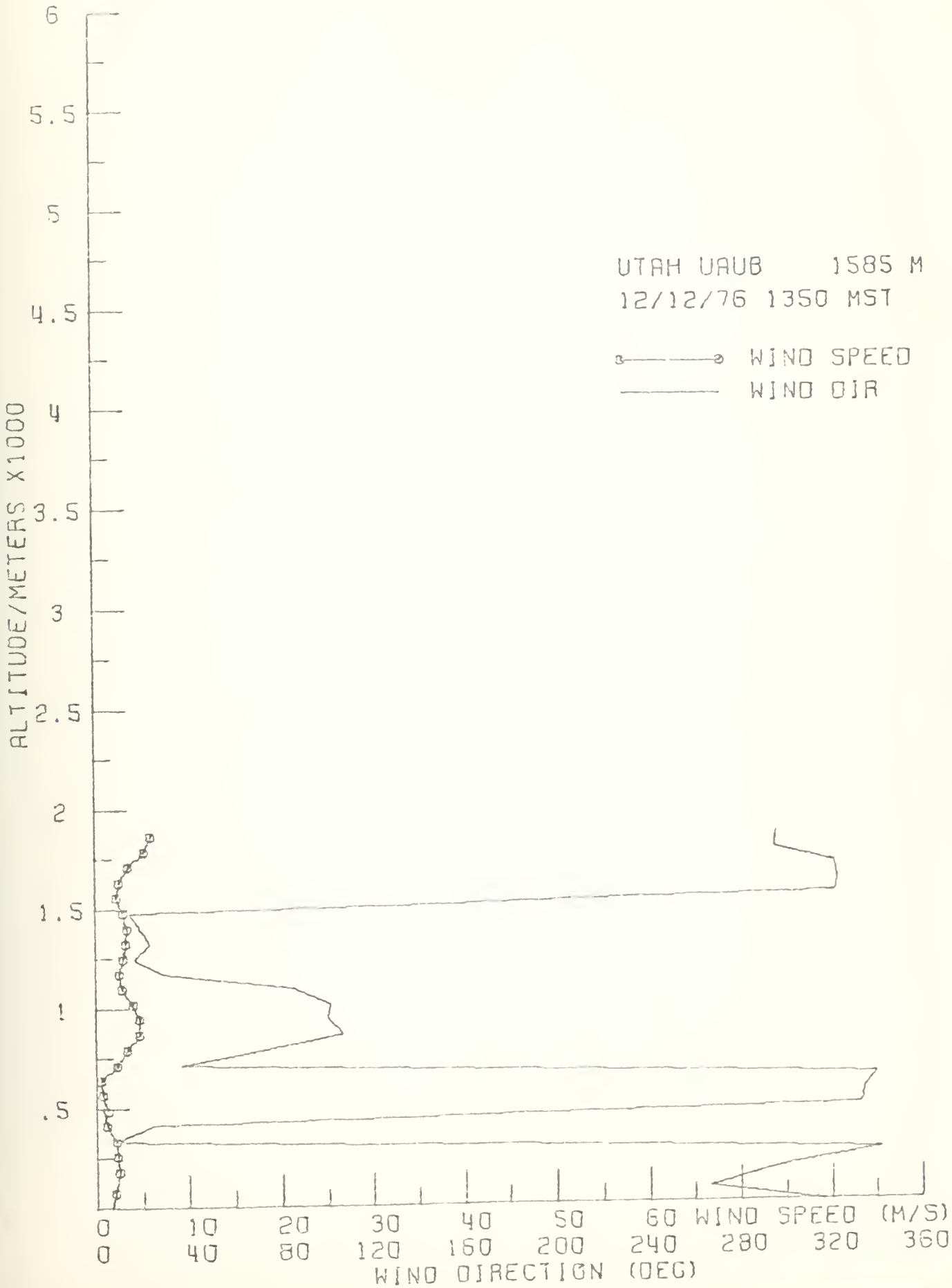

UTAH UAUB 1585 M
12/10/76 1352 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

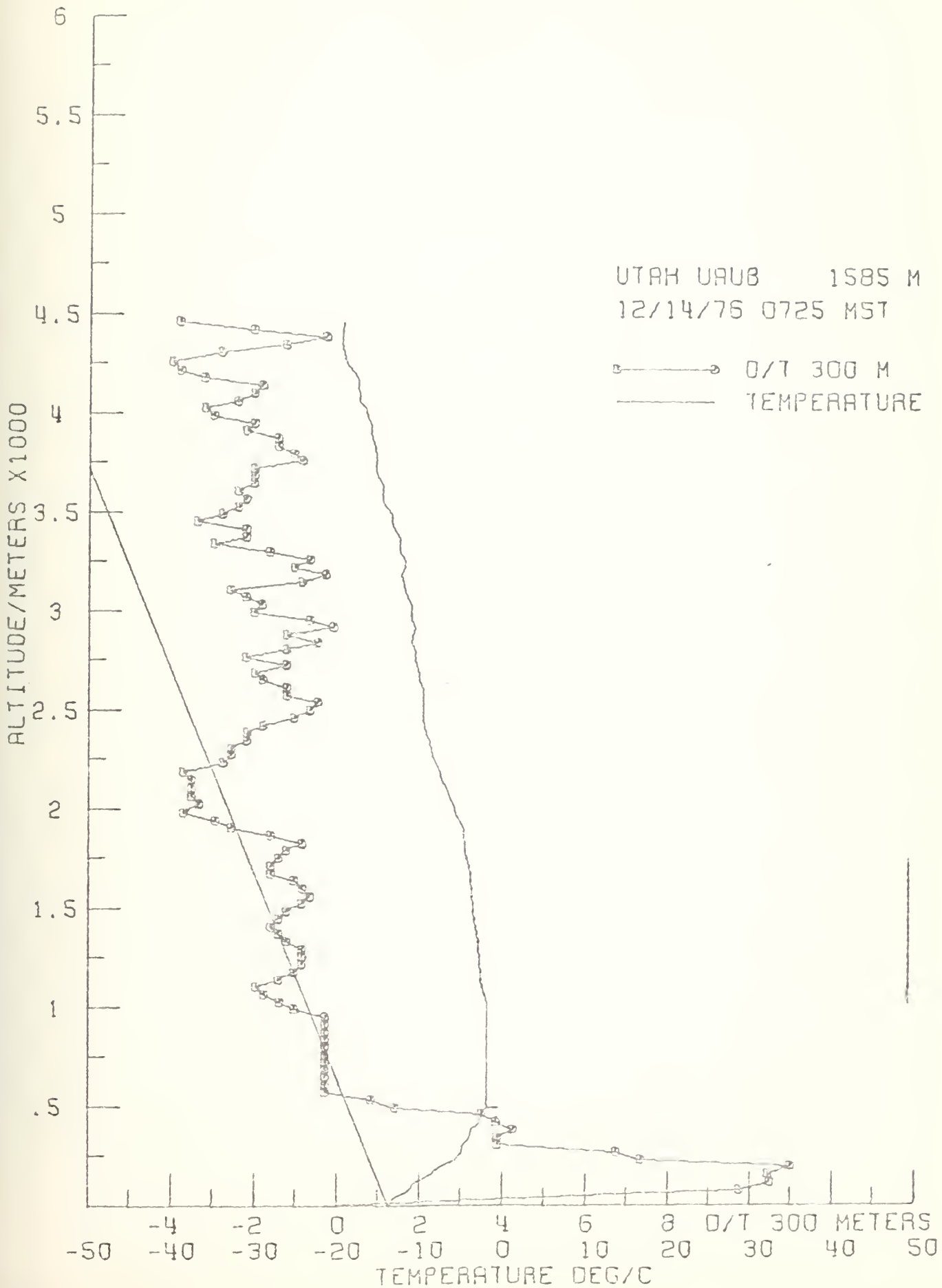

UTAH UAUB 1585 M
12/10/76 1352 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

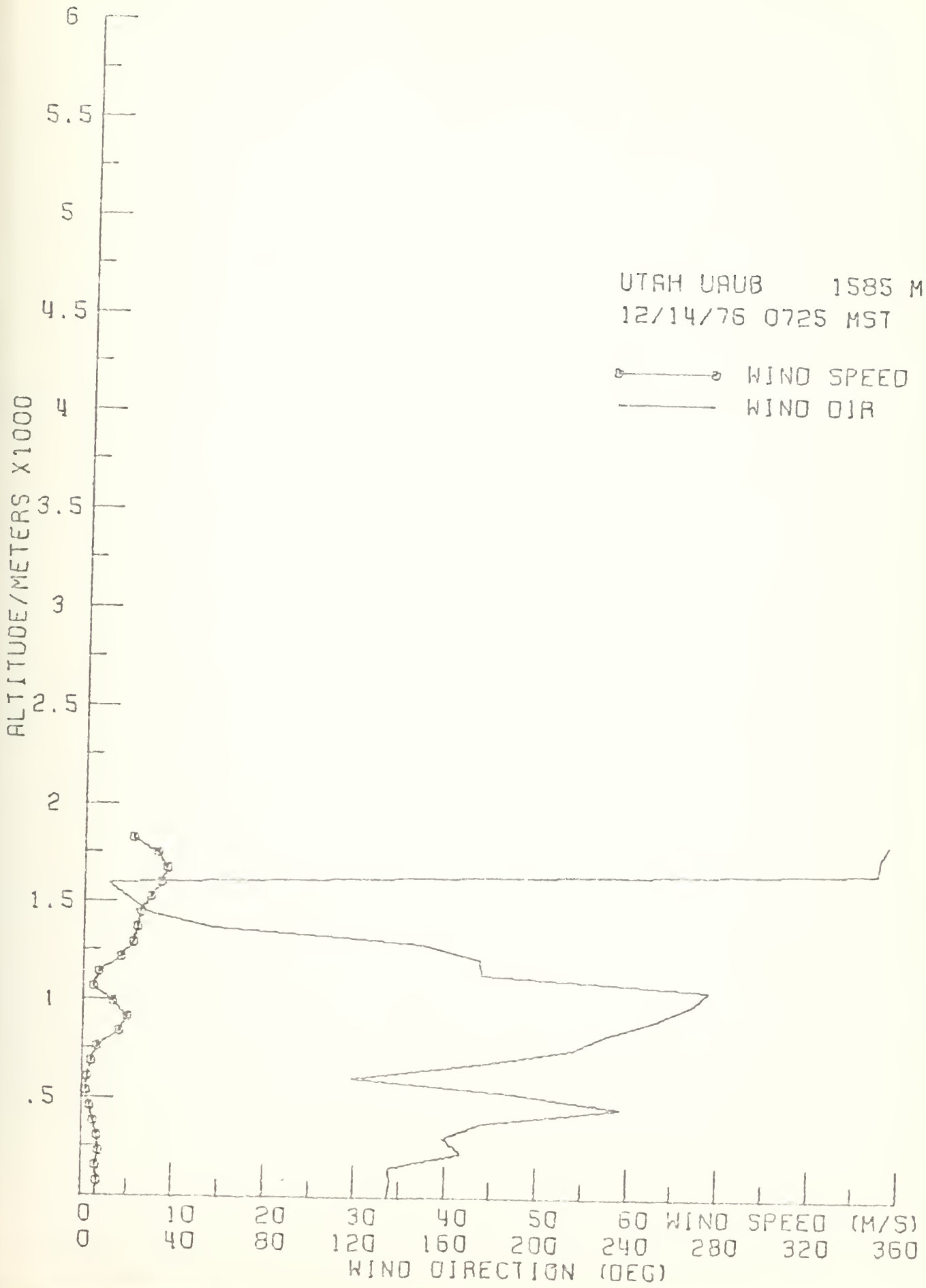

UTAH UAUB 1585 M
12/12/76 0726 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

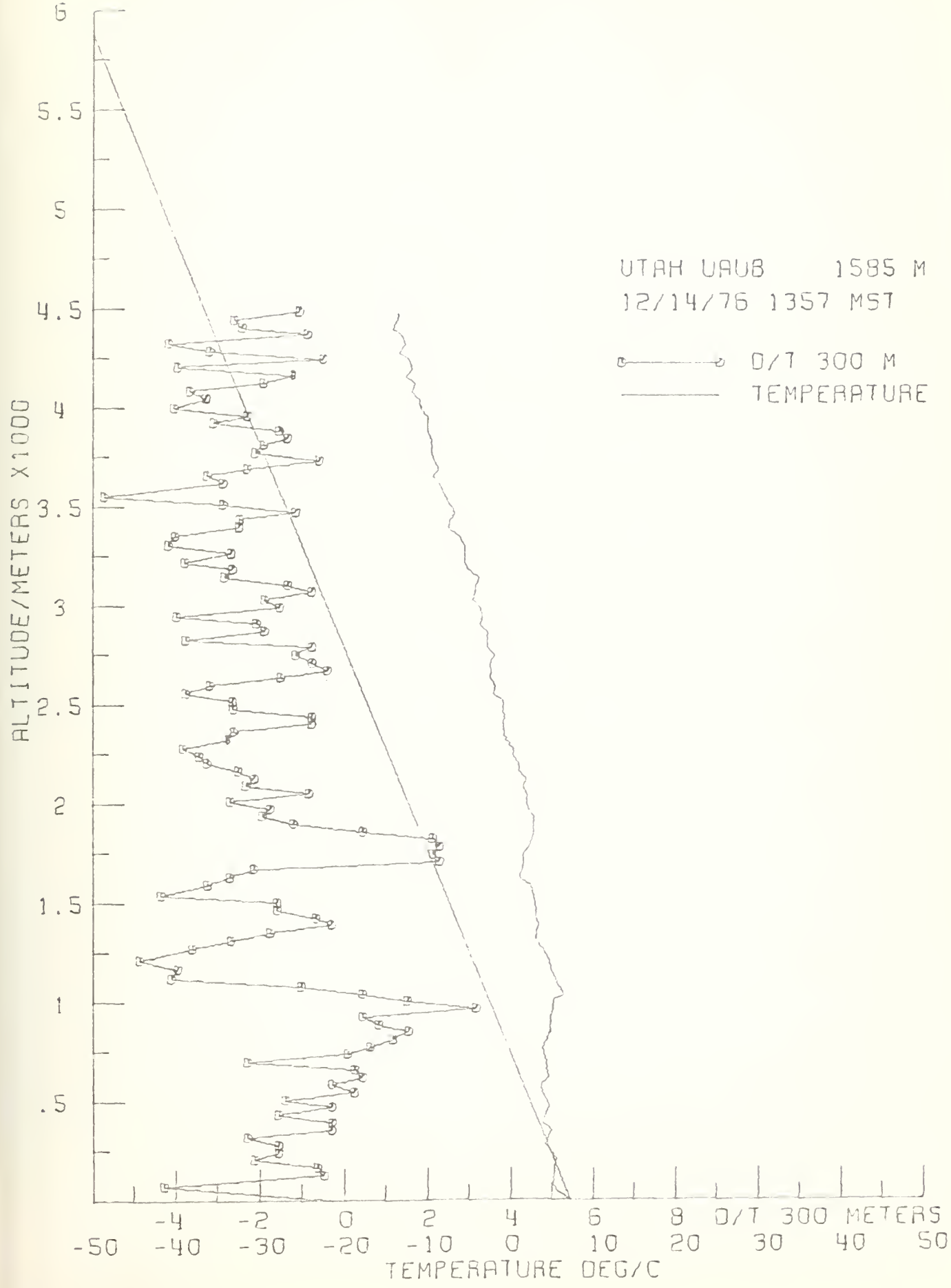

UTAH UAUB 1585 M
12/12/76 0725 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

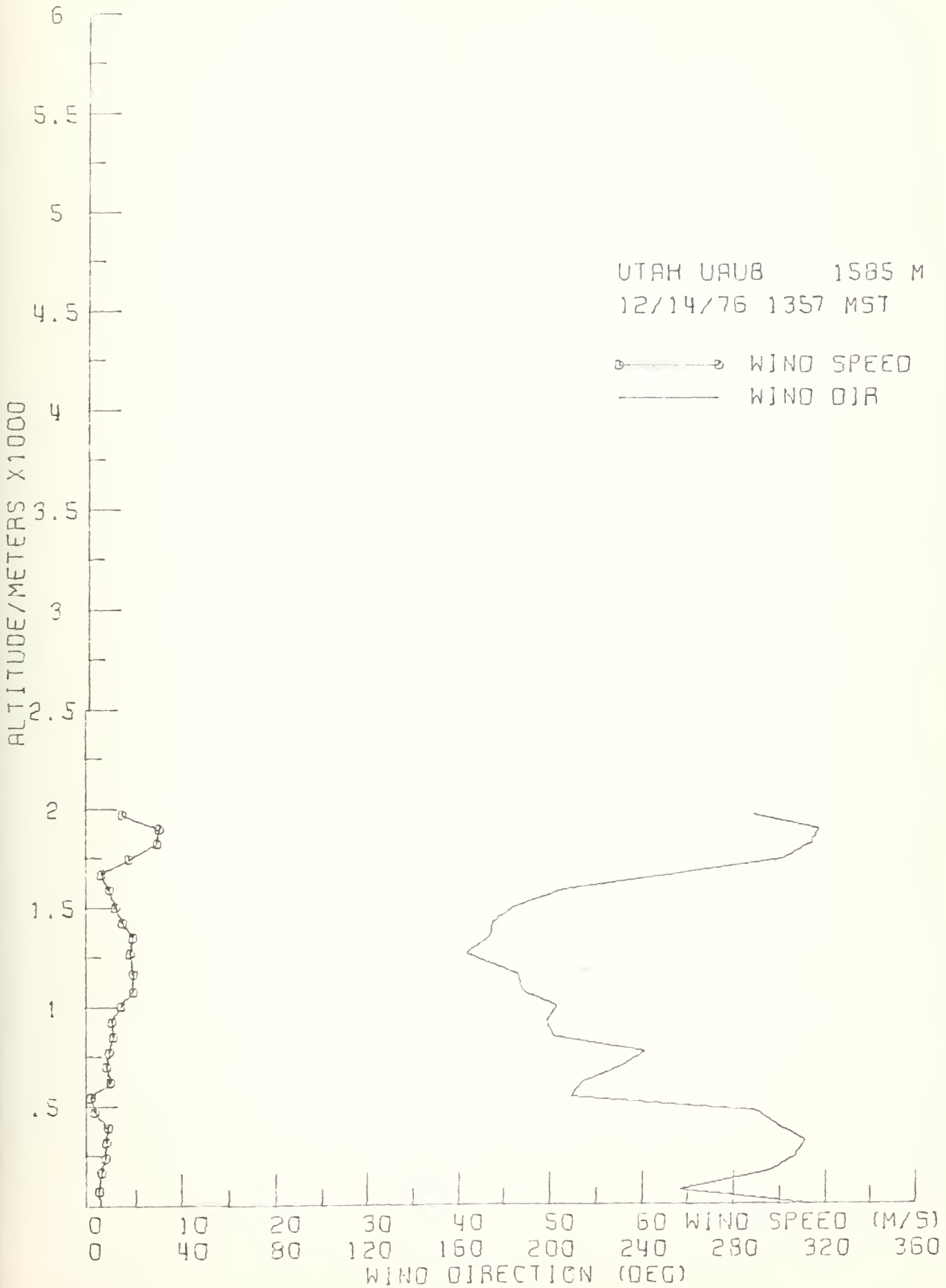

UTAH UAUB 1585 M
12/12/76 1350 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
O/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C

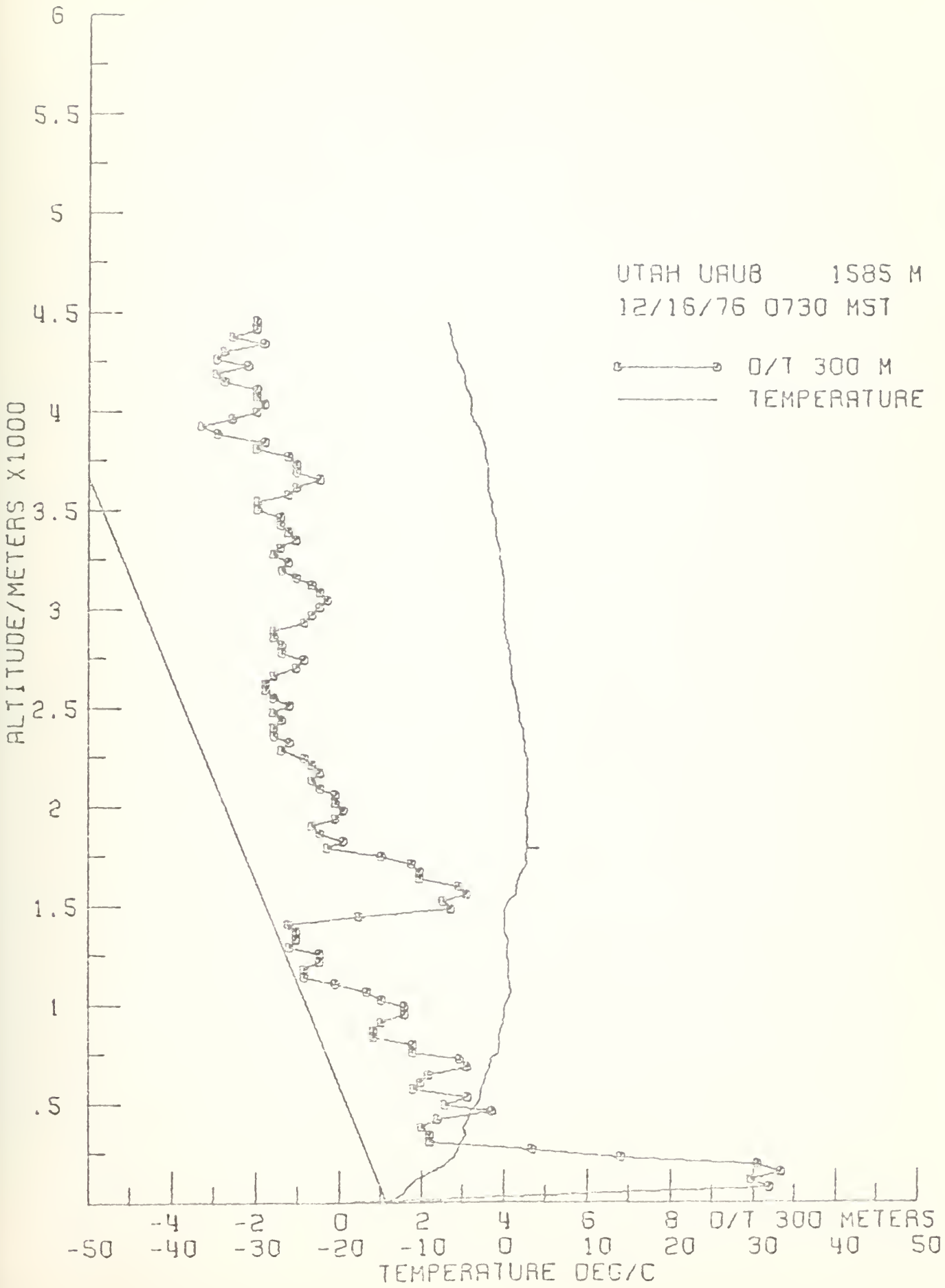

UTAH UAUB 1585 M
12/12/76 1350 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

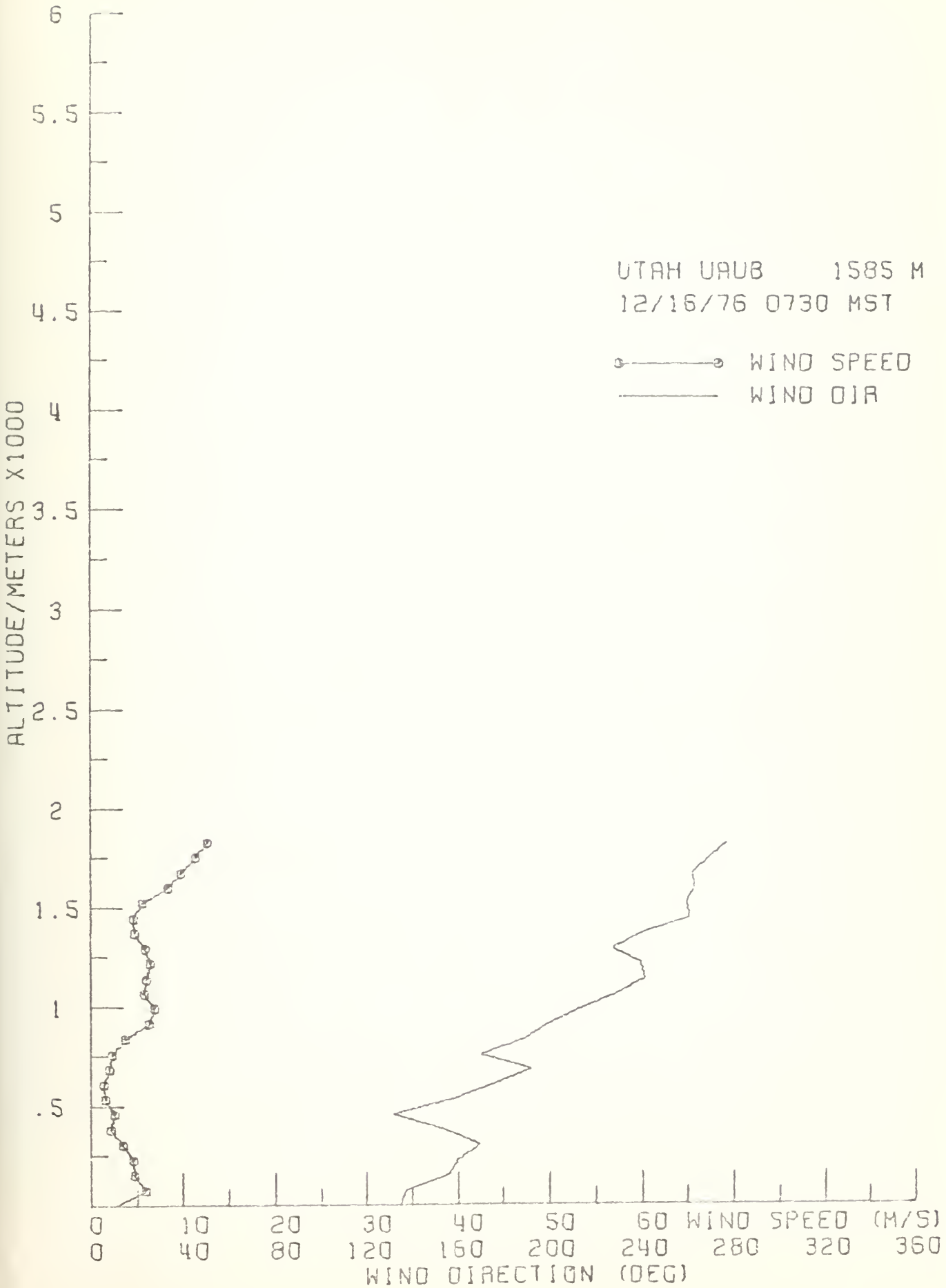

UTAH UAUB 1585 M
12/14/76 0725 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

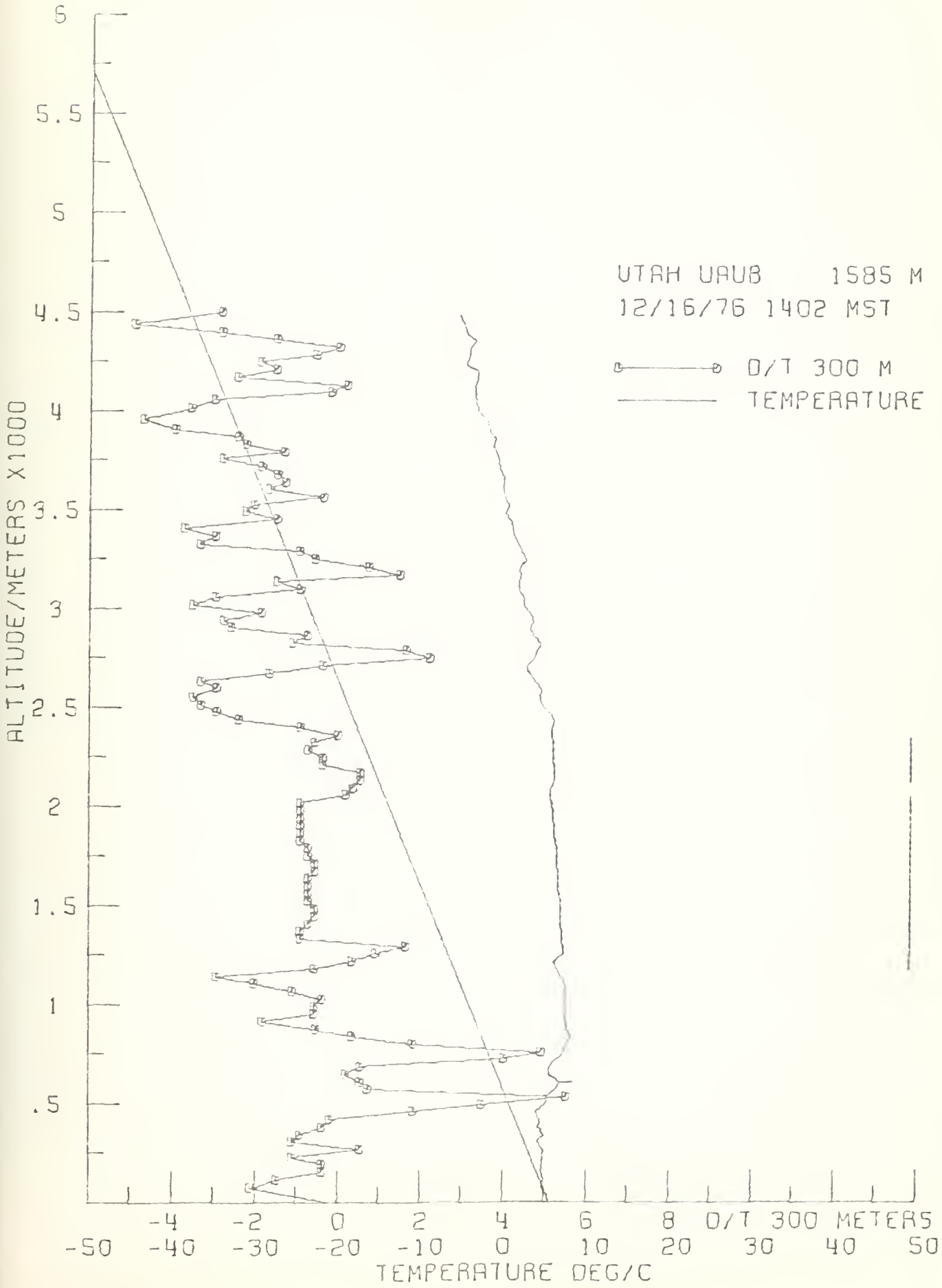

UTAH UAUB 1585 M
12/14/76 0725 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

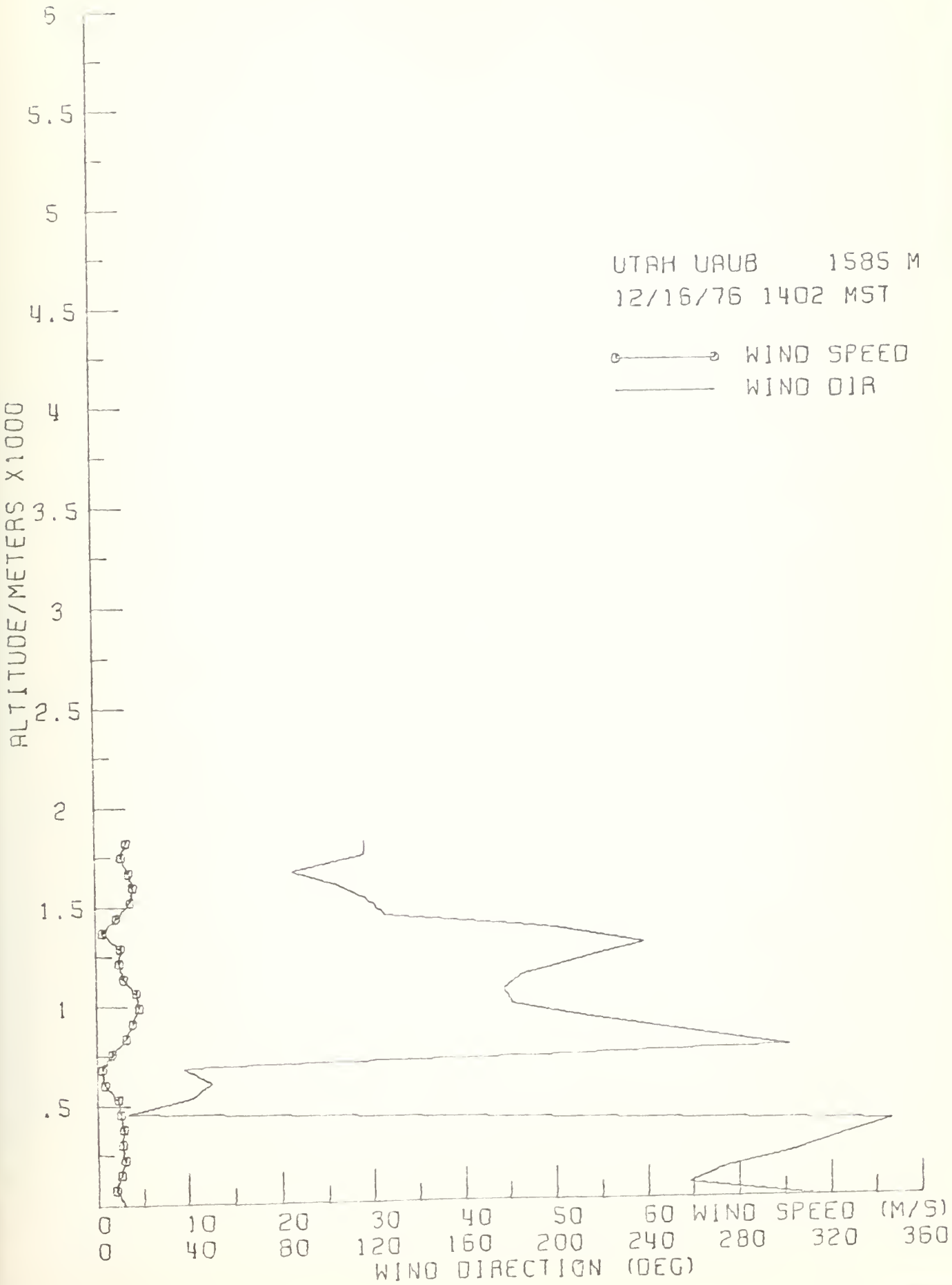

UTAH UAUB 1585 M
12/14/76 1357 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

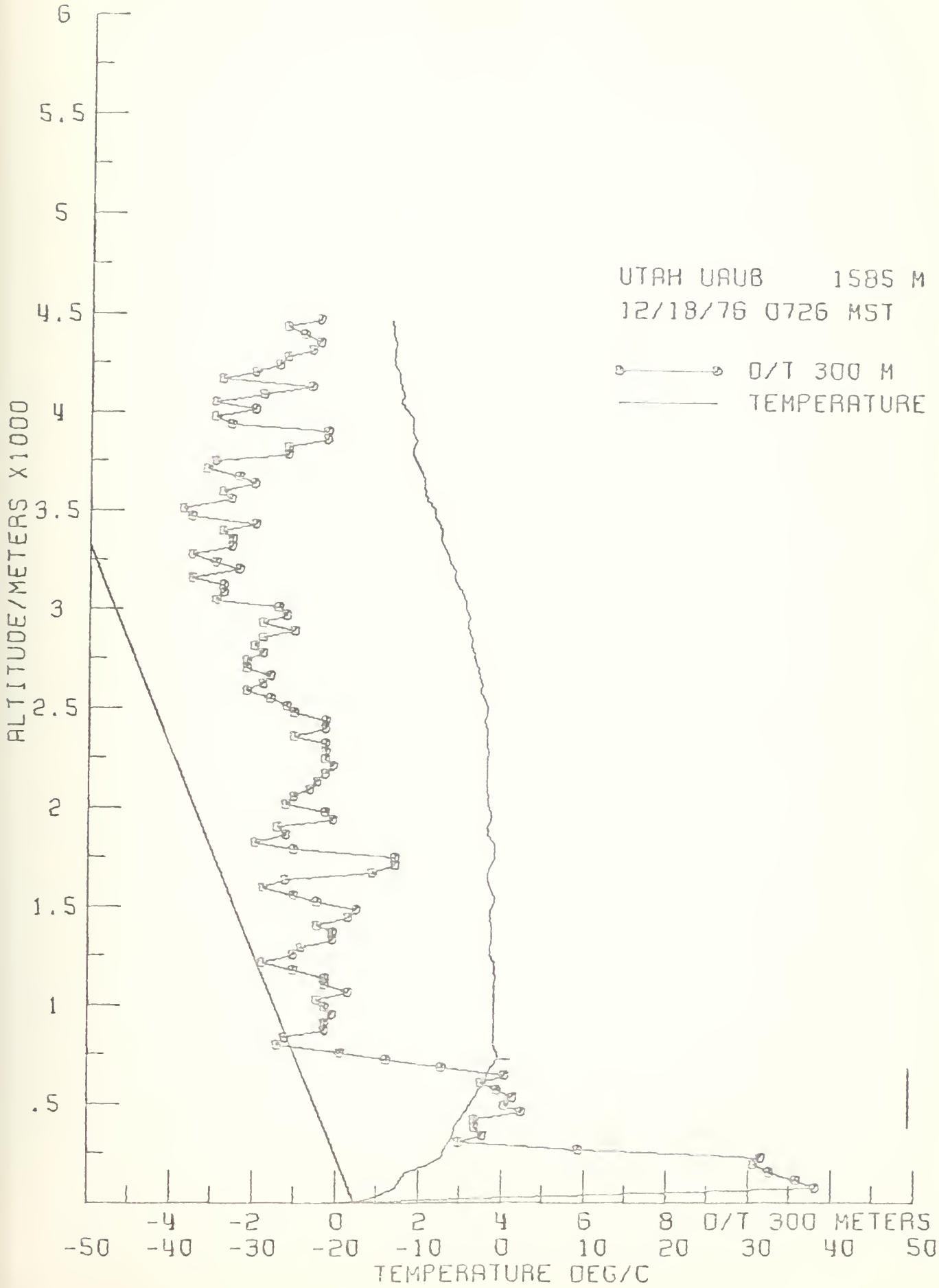

UTAH UAUB 1585 M
12/14/76 1357 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

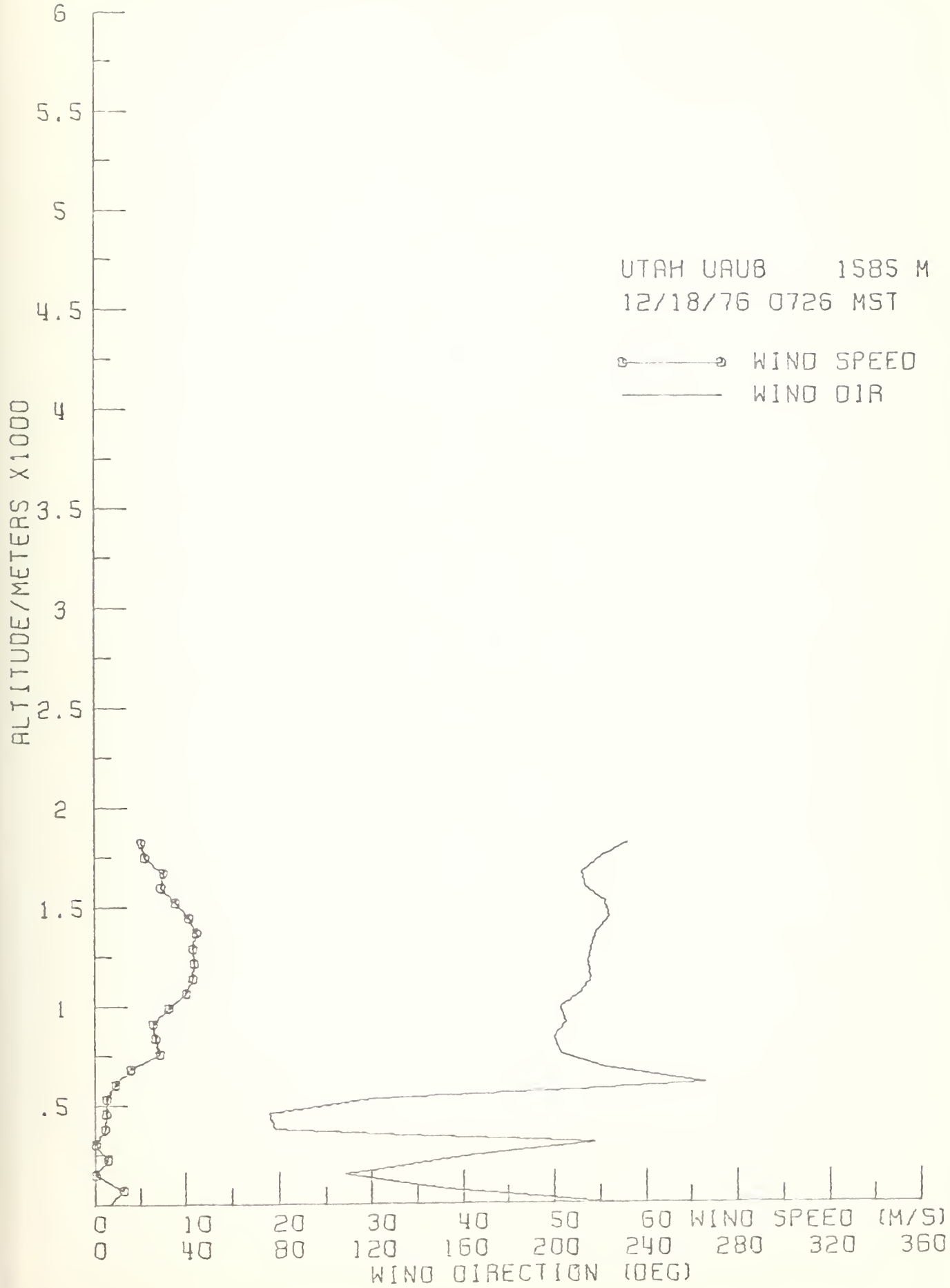

UTAH UAUB 1585 M
12/16/76 0730 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

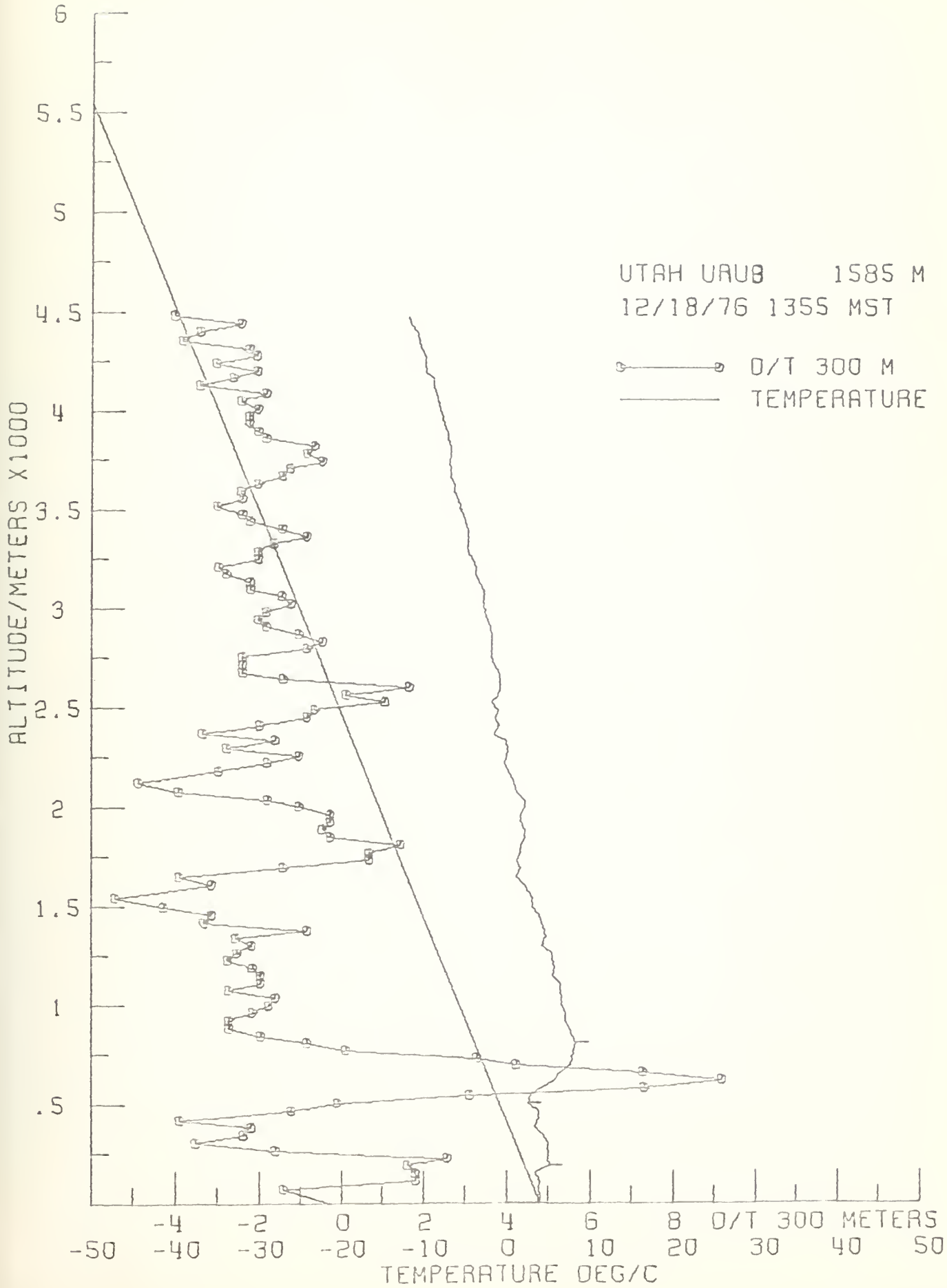

UTAH UAUB 1585 M
12/16/76 0730 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

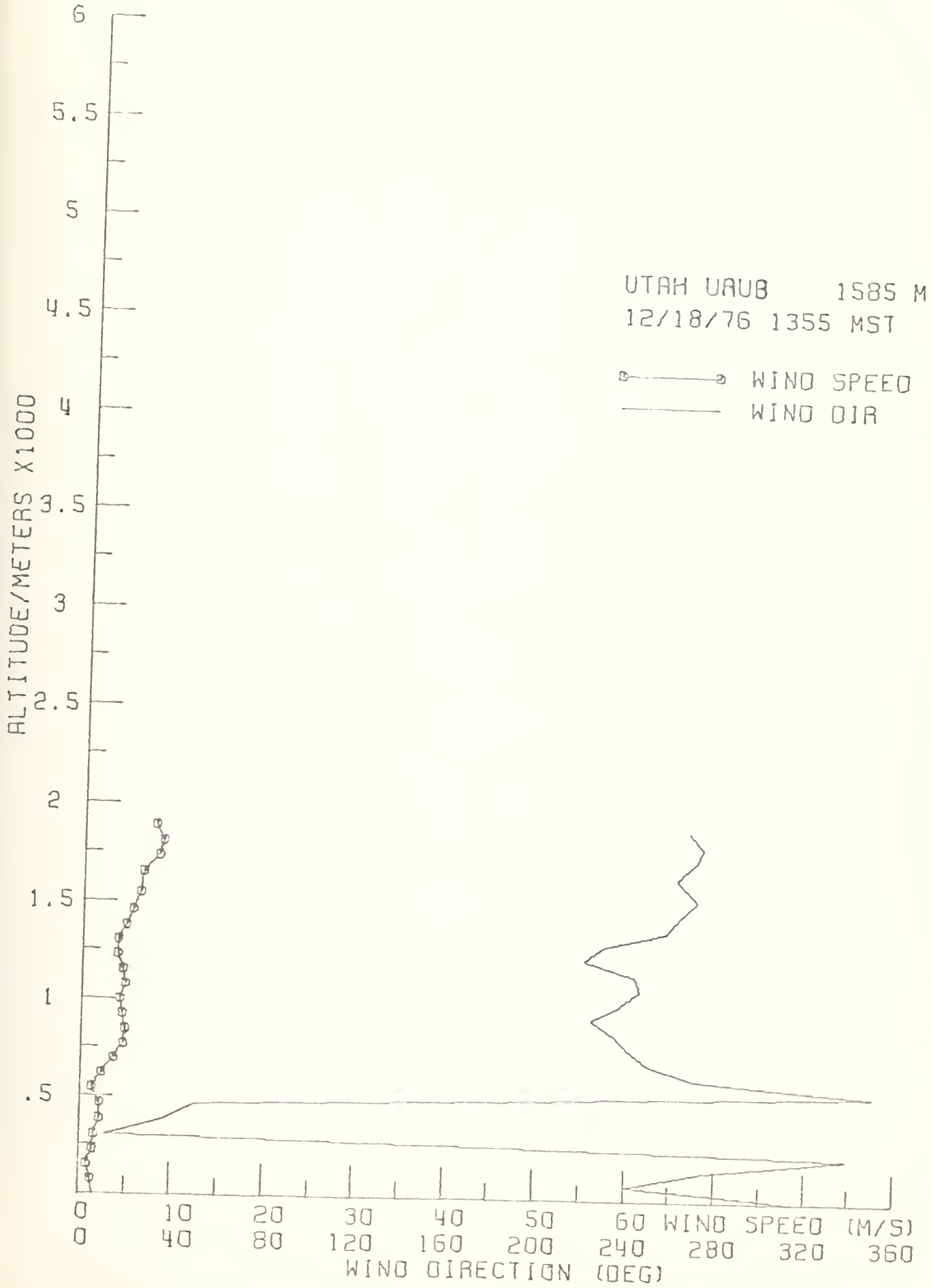

UTAH UAUB 1585 M
12/16/76 1402 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

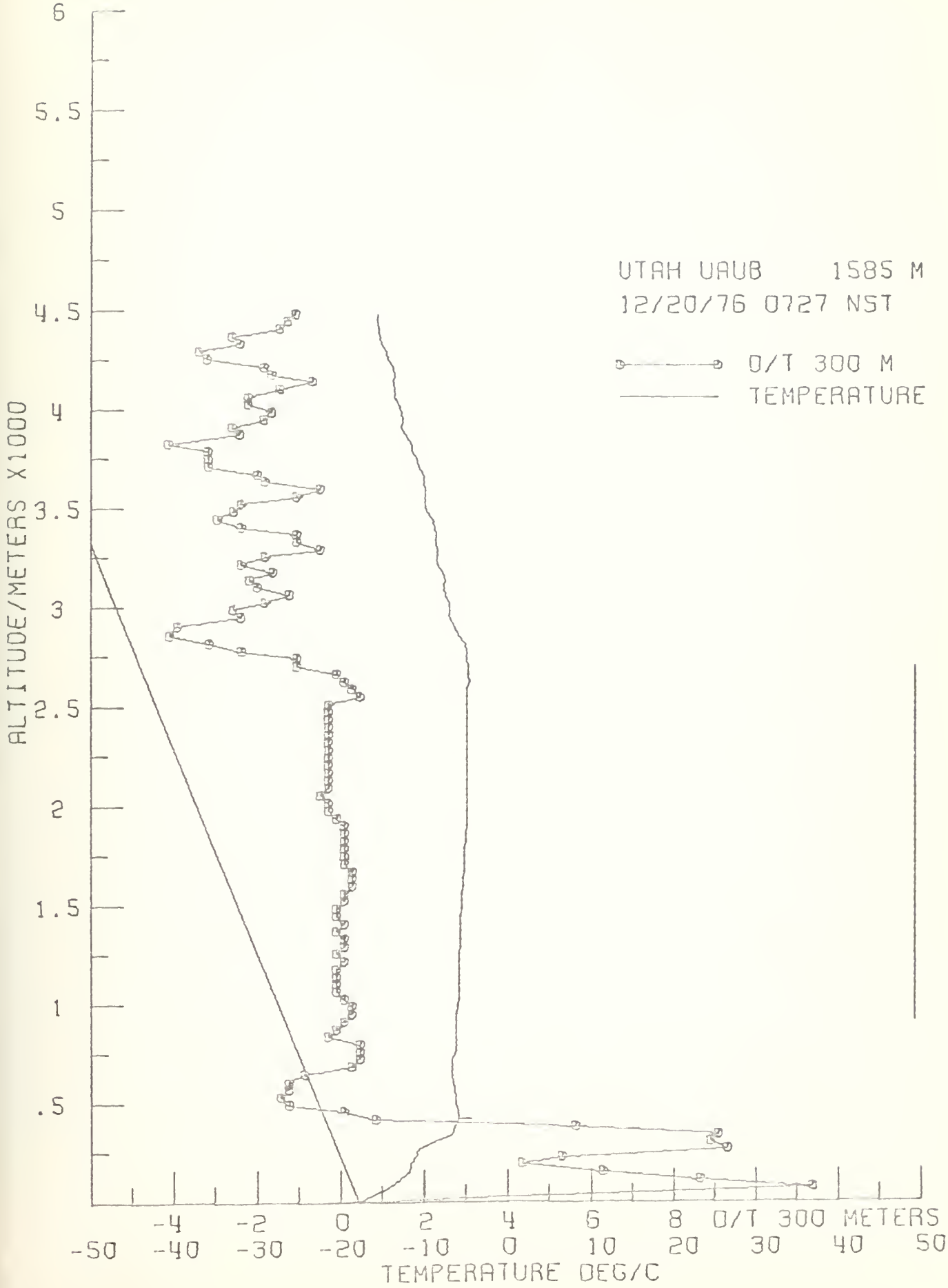

UTAH UAUB 1585 M
12/16/76 1402 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

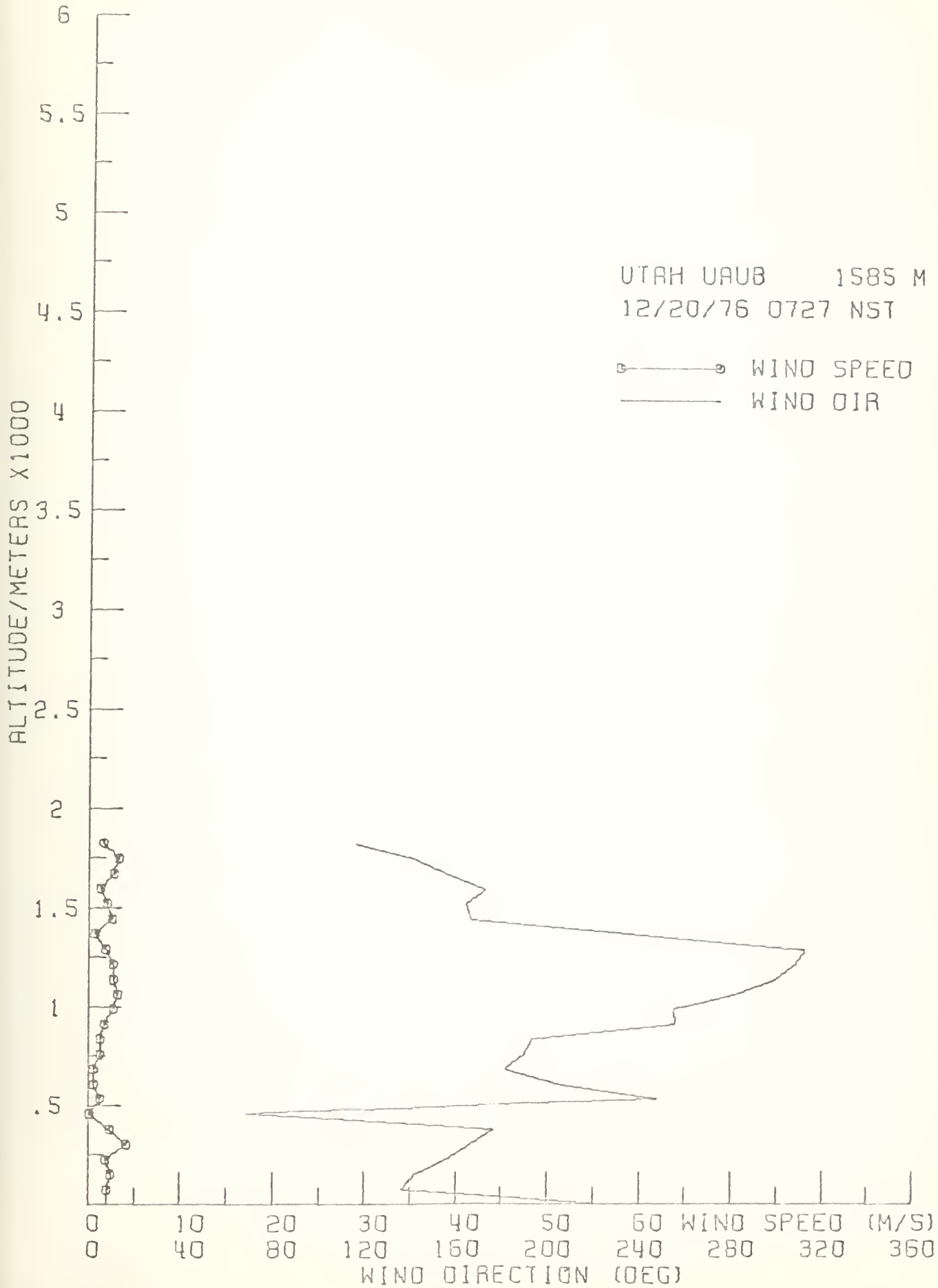

UTAH UAUB 1585 M
12/18/76 0726 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

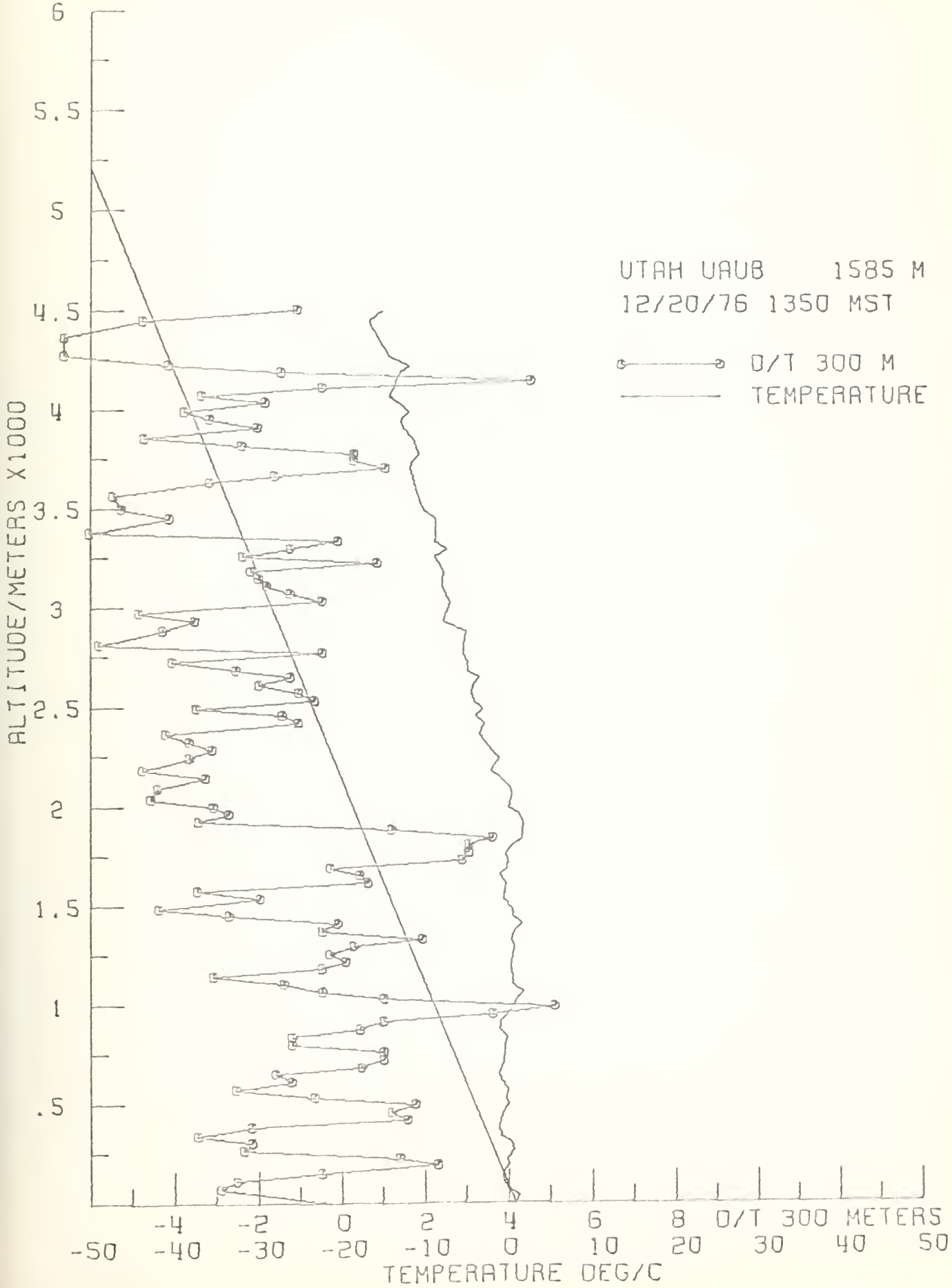

UTAH UAUB 1585 M
12/18/76 0726 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

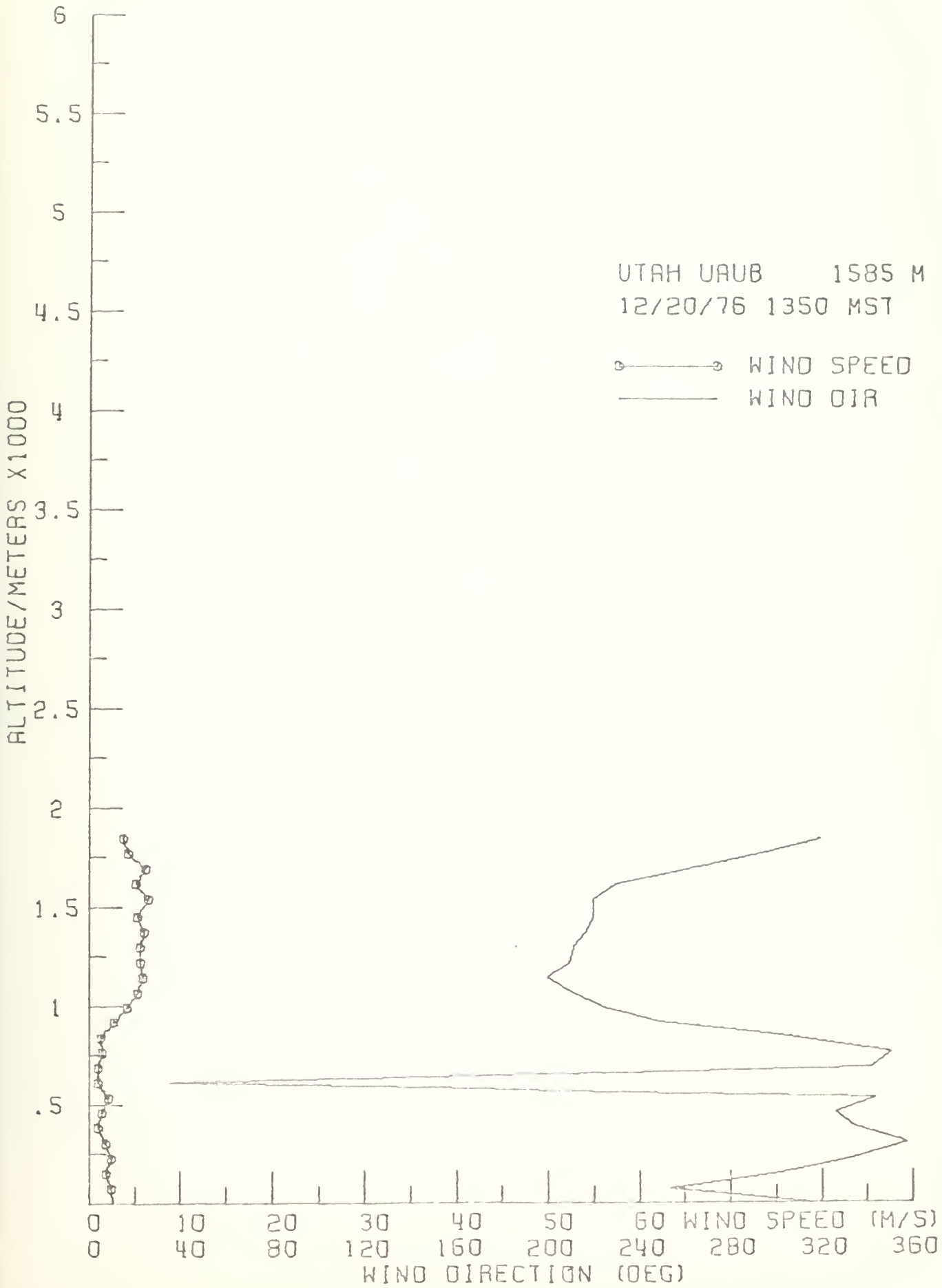

UTAH UAUB 1585 M
12/18/76 1355 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

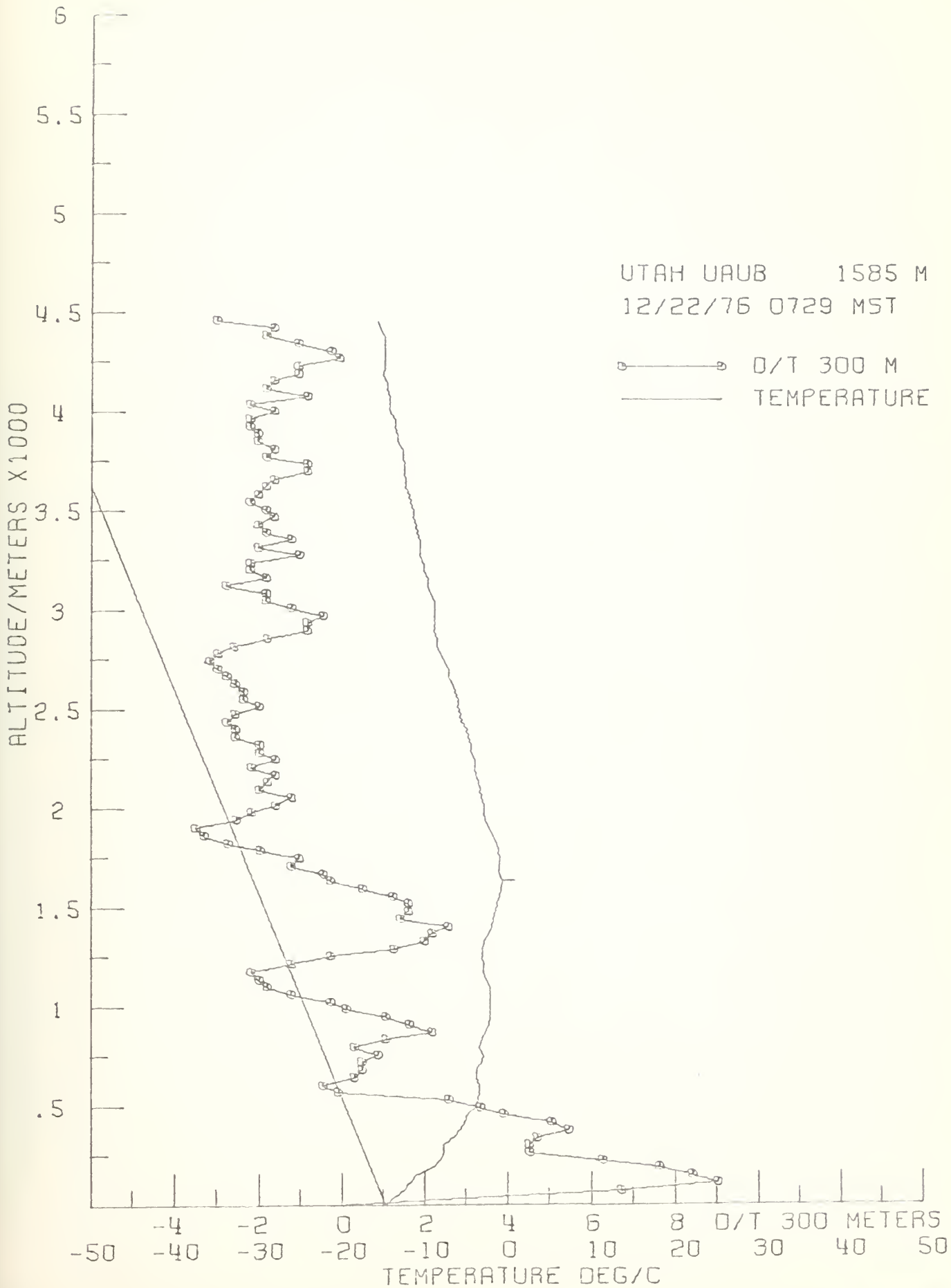

UTAH UAUB 1585 M
12/18/76 1355 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

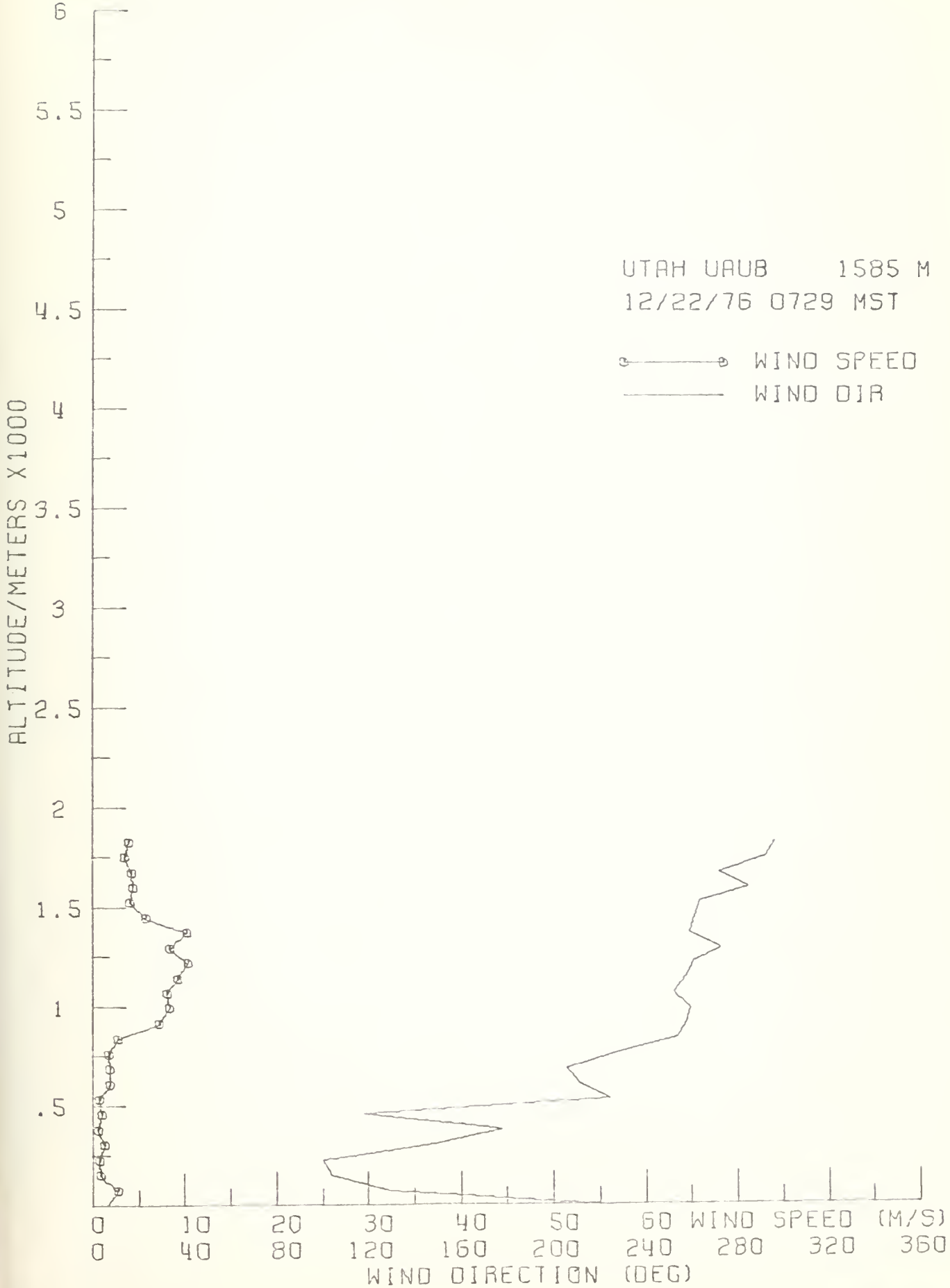

UTAH UAUB 1585 M
12/20/76 0727 NST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

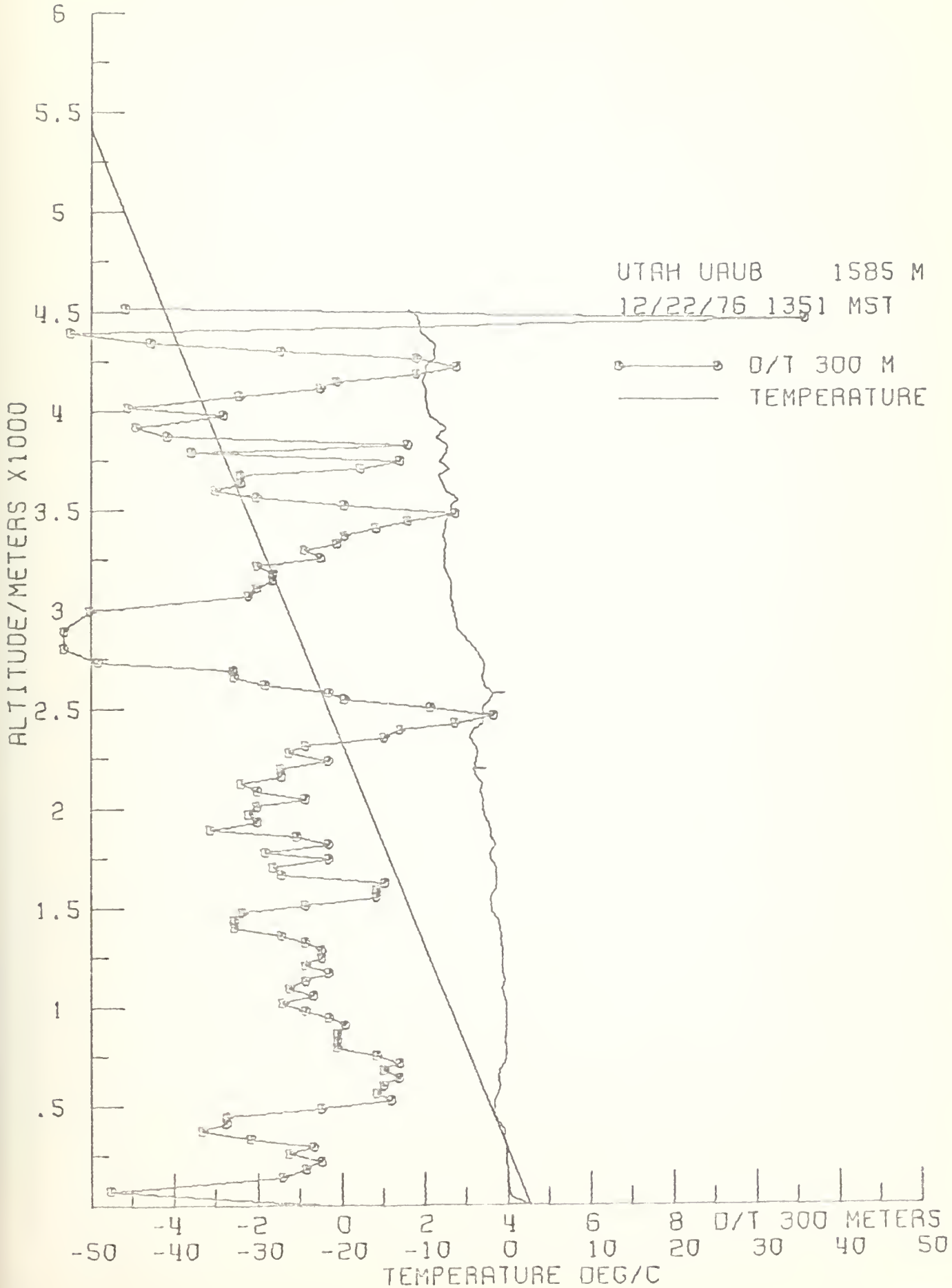

UTAH UAUB 1585 M
12/20/76 0727 NST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

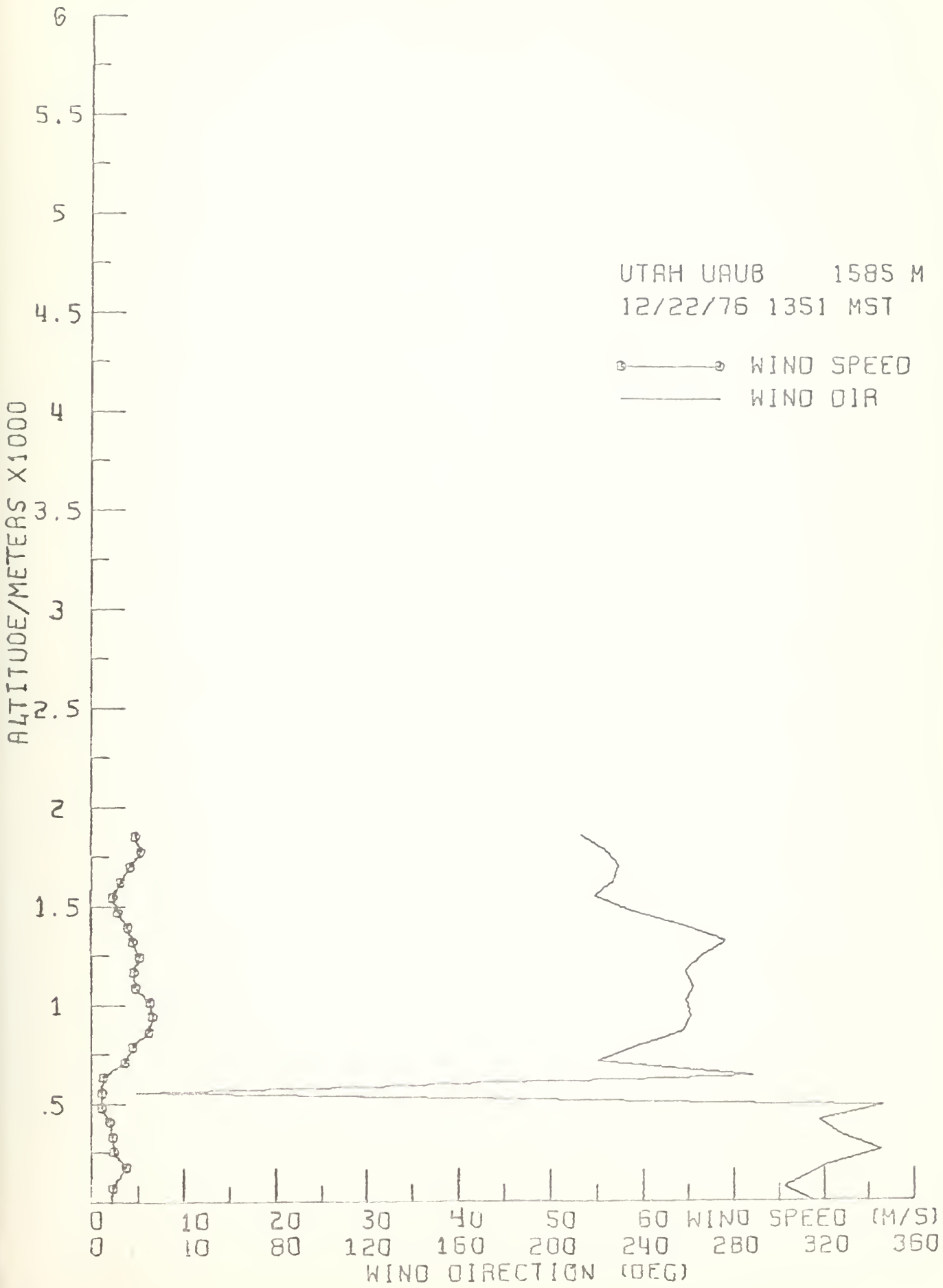

UTAH UAUB 1585 M
12/20/76 1350 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

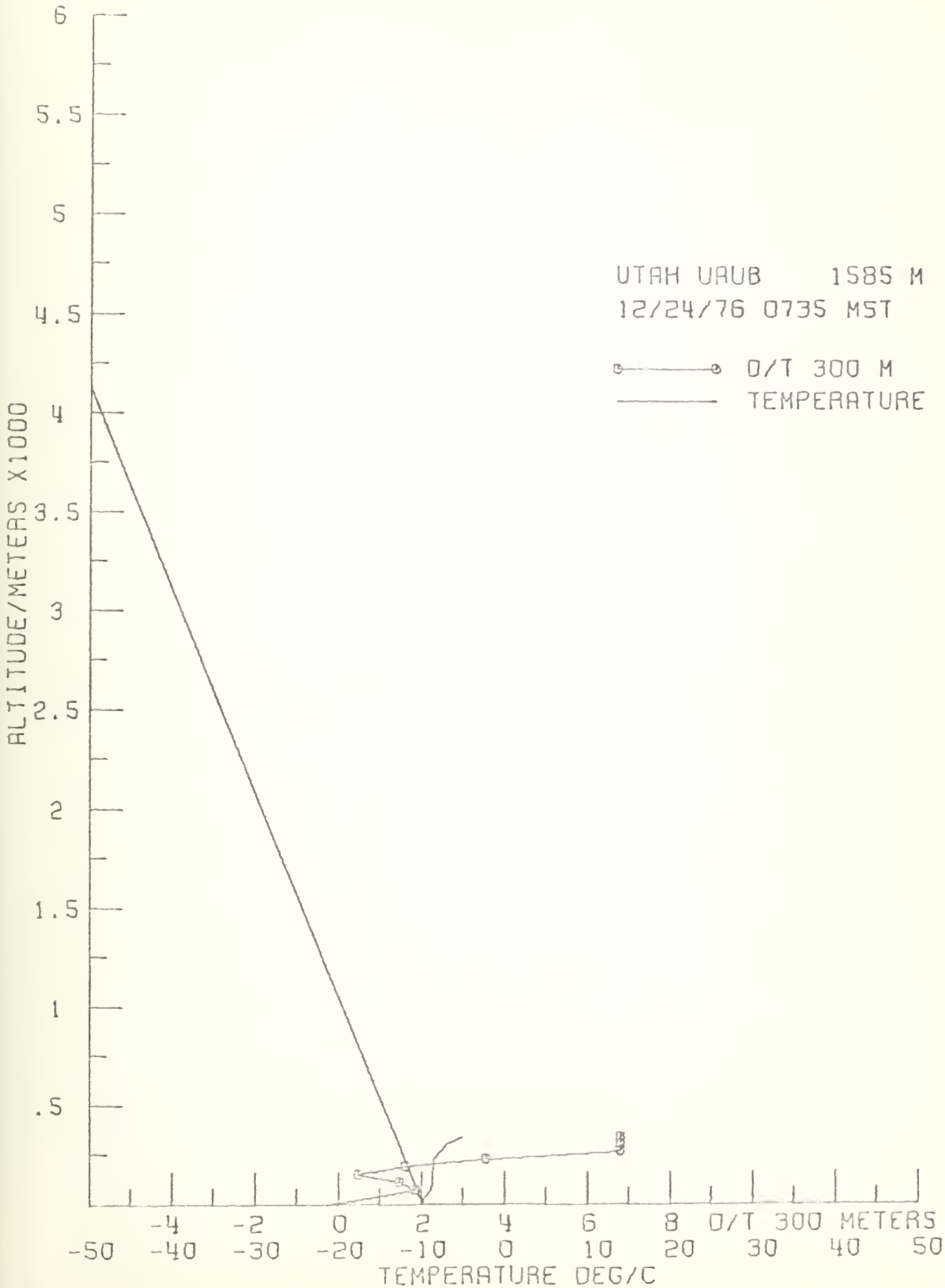

UTAH UAUB 1585 M
12/20/76 1350 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

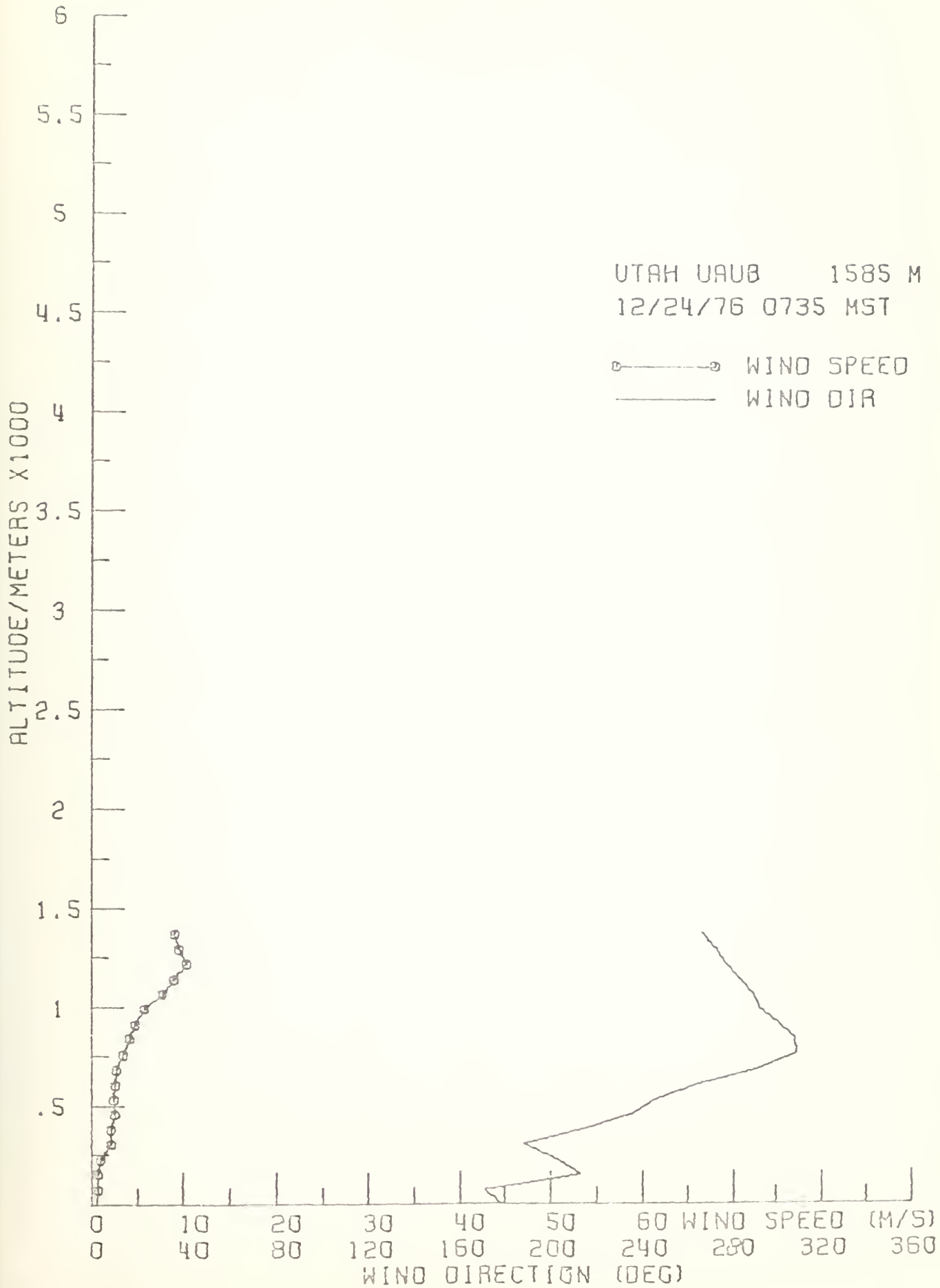

UTAH UAUB 1585 M
12/22/76 0729 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

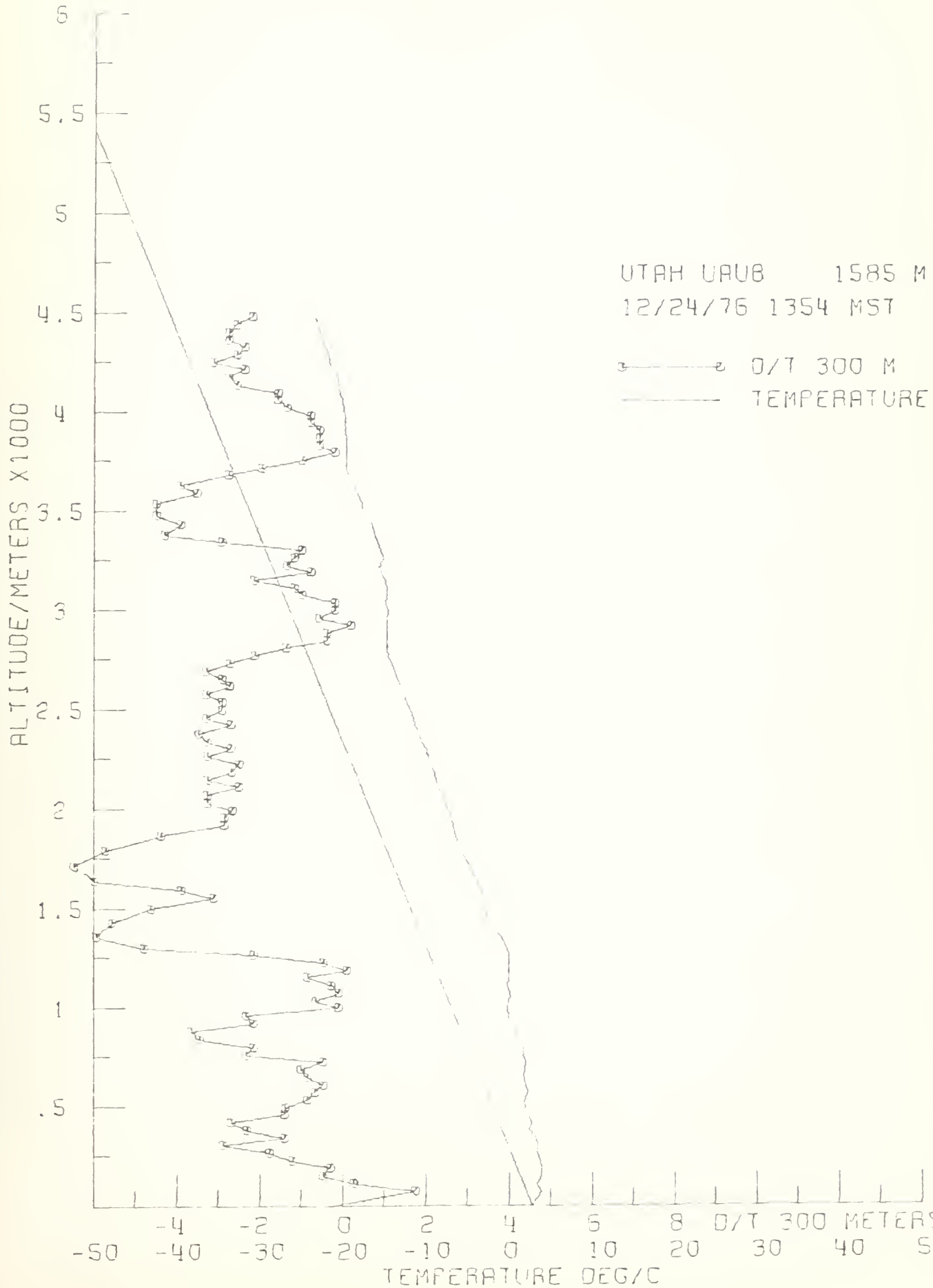

UTAH UAUB 1585 M
12/22/76 0729 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

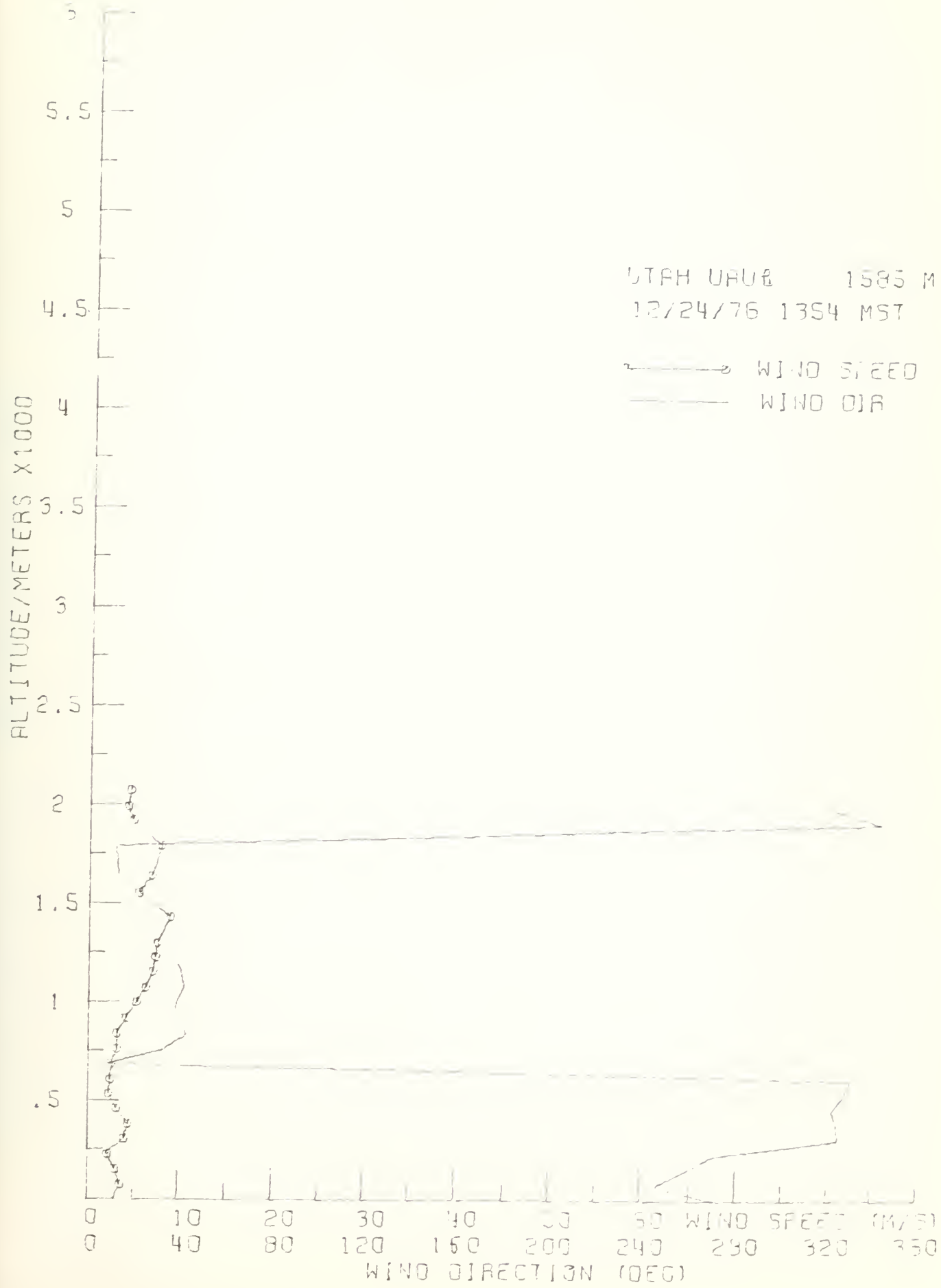

UTAH UAUB 1585 M
12/22/76 1351 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

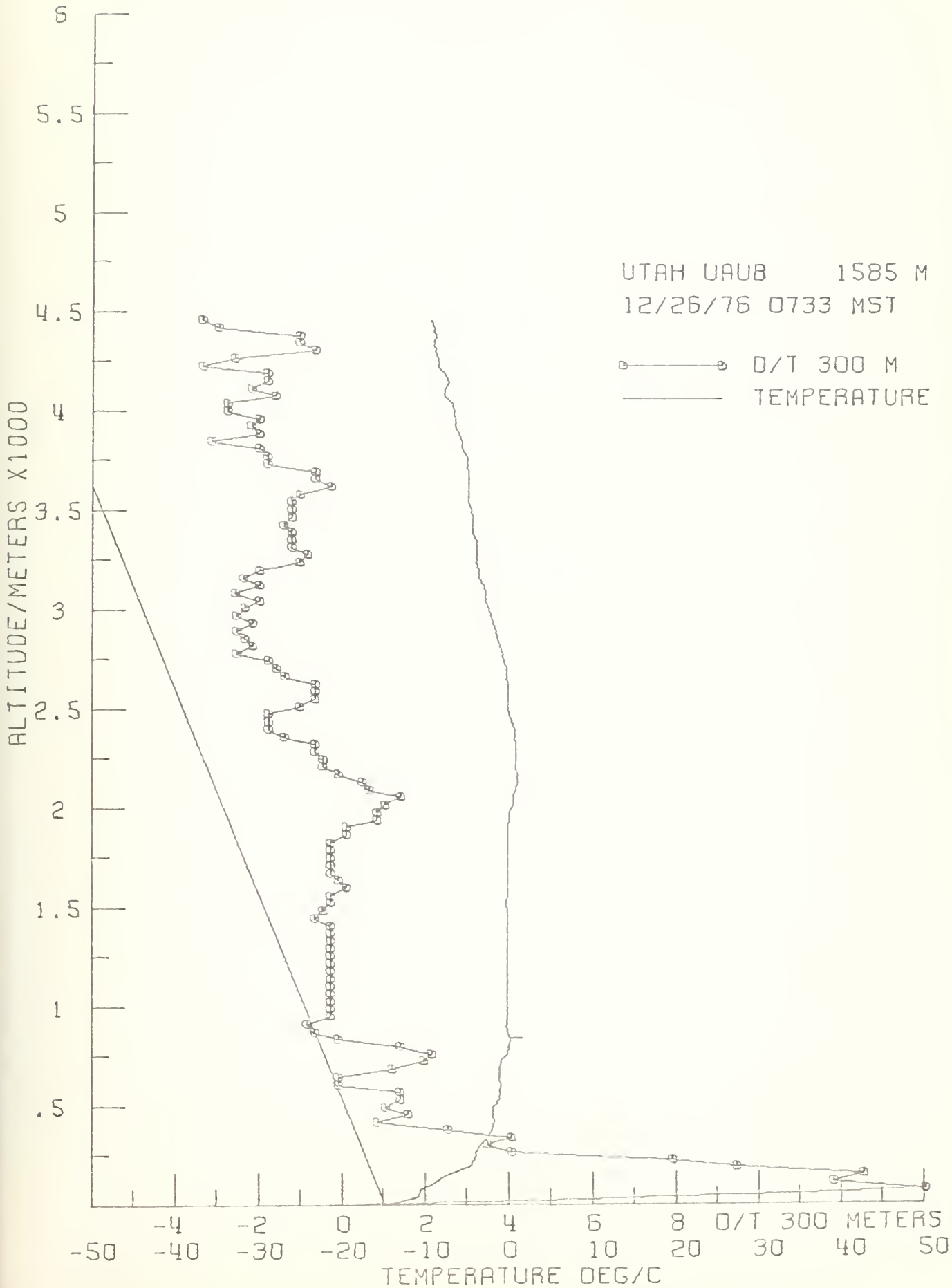

UTAH UAUB 1585 M
12/22/76 1351 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 10 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

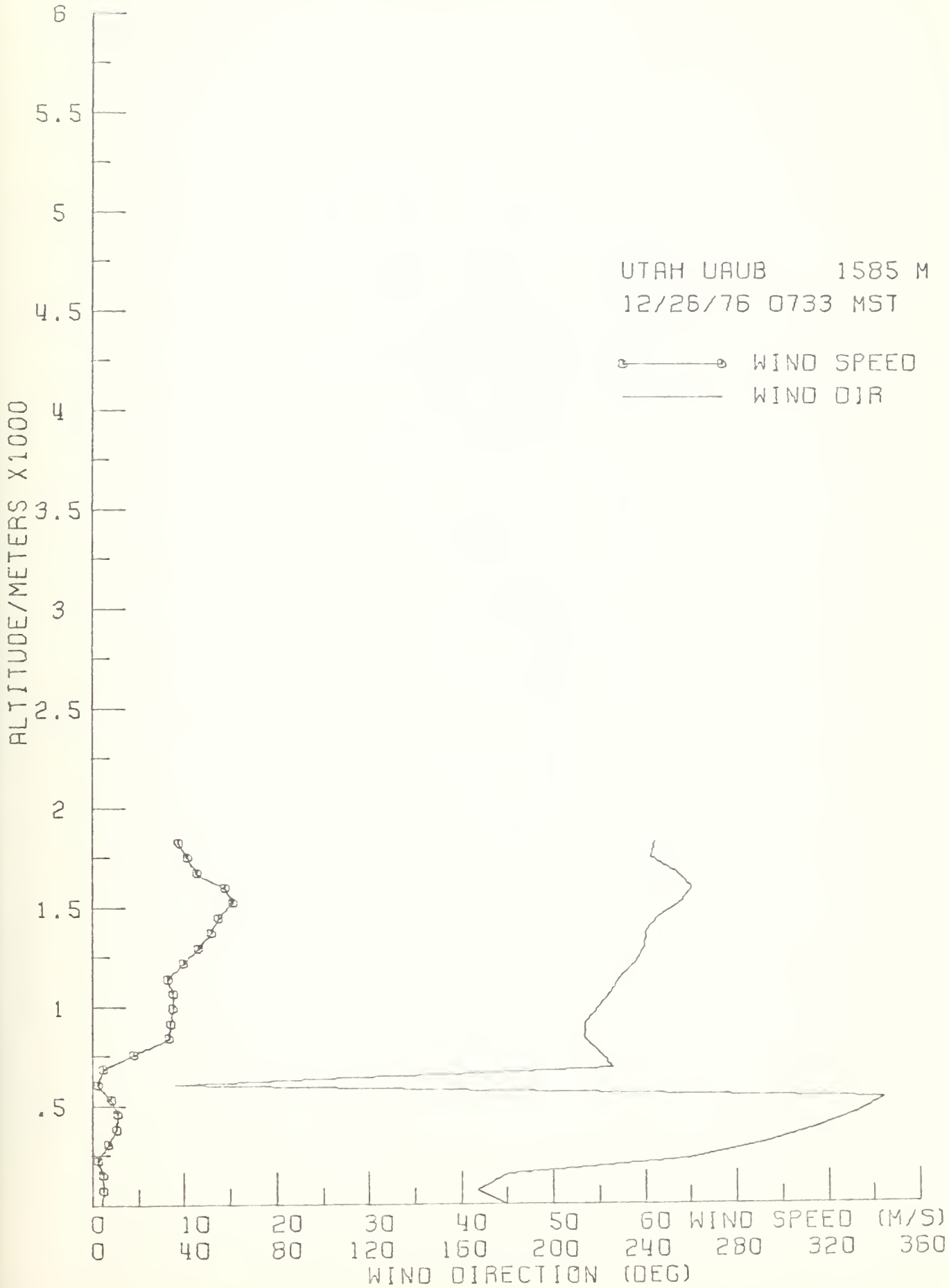

UTAH UAUB 1585 M
12/24/76 0735 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

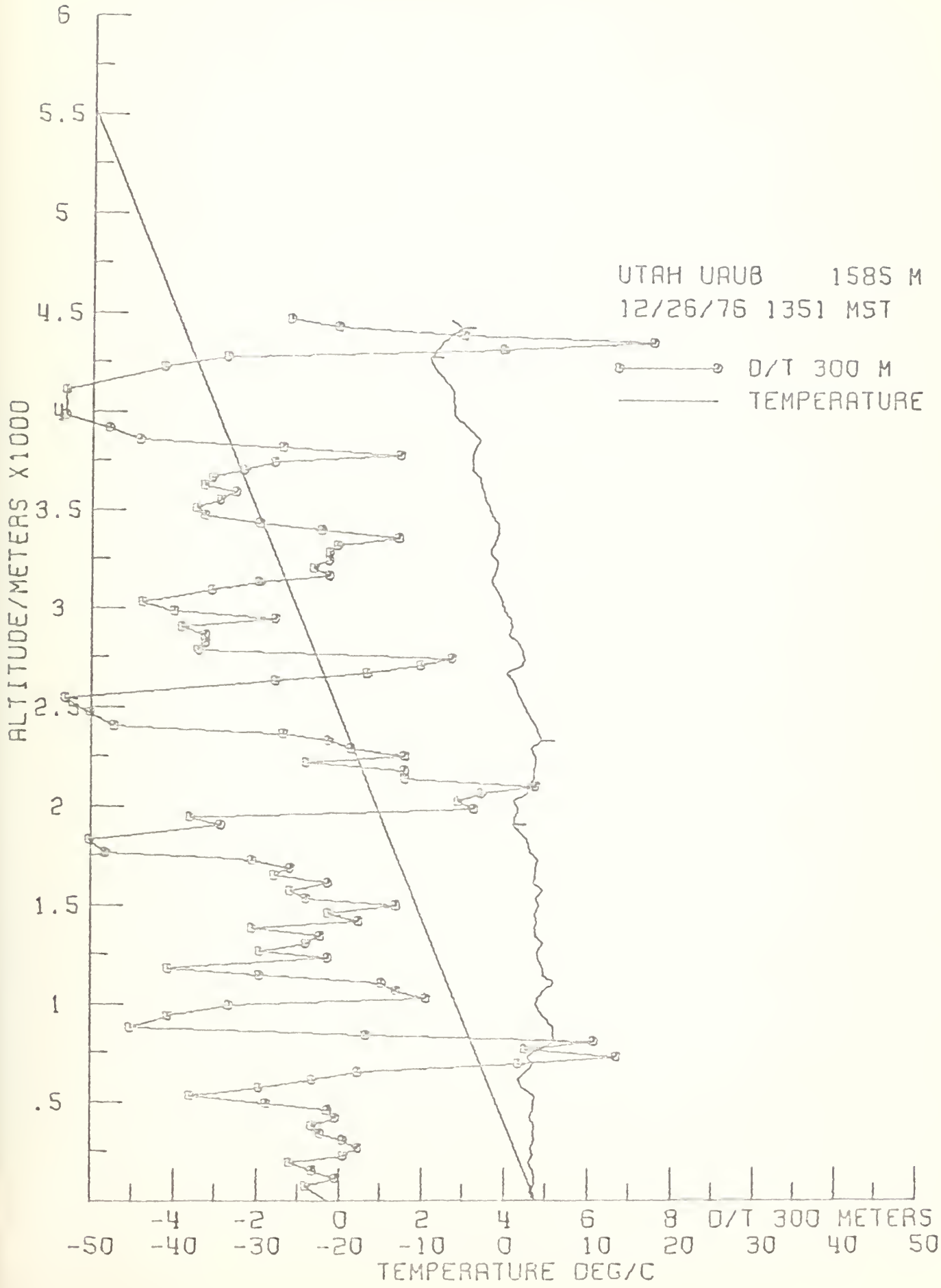

UTAH UAUB 1585 M
12/24/76 0735 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

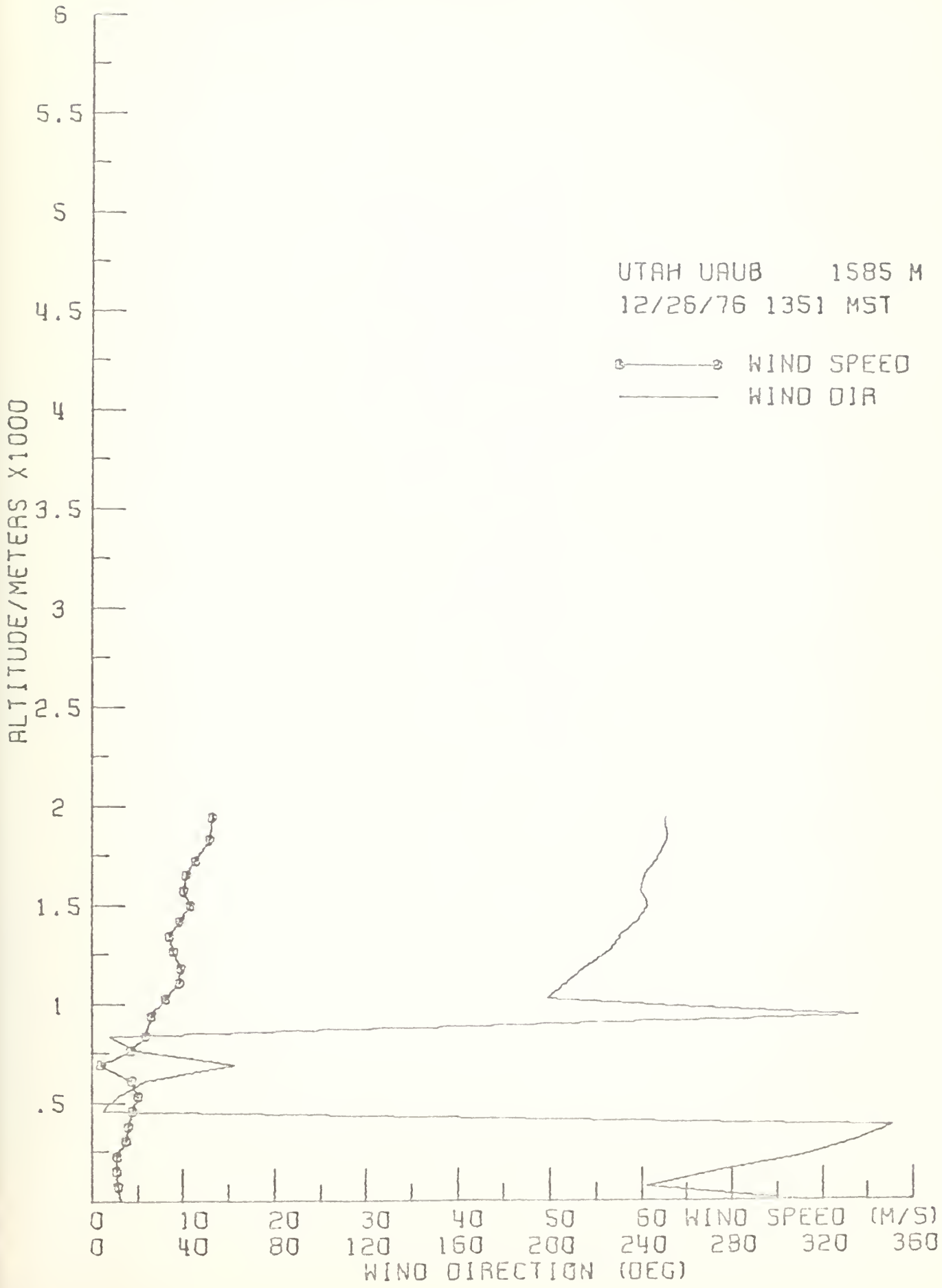

UTAH UAU8 1585 M
12/24/76 1354 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

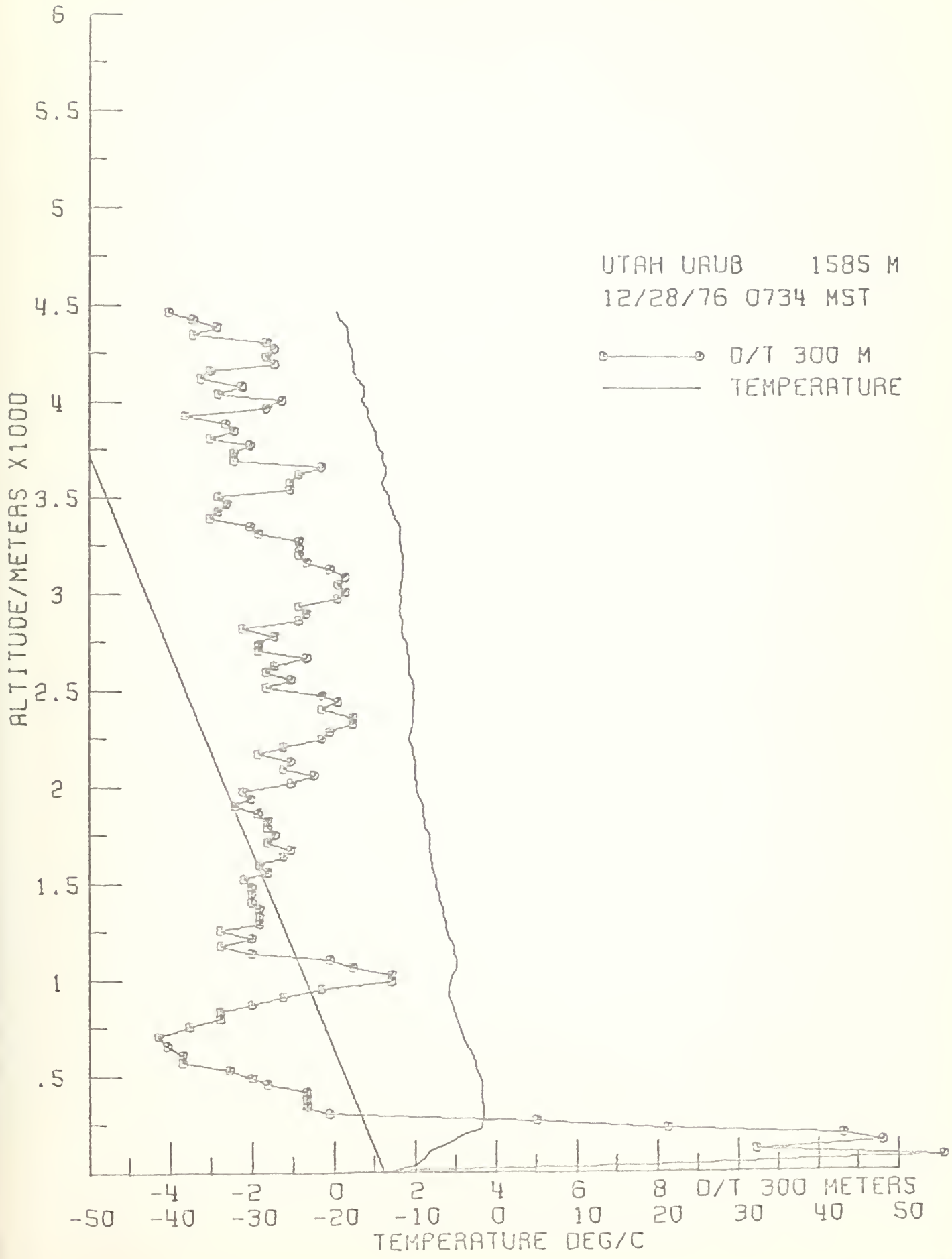

UTAH UAU&
1585 M
12/24/76 1354 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
5
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0
10
20
30
40
50
60 WIND SPEED (M/S)
0
40
80
120
160
200
240
280
320
360
WIND DIRECTION (DEG)

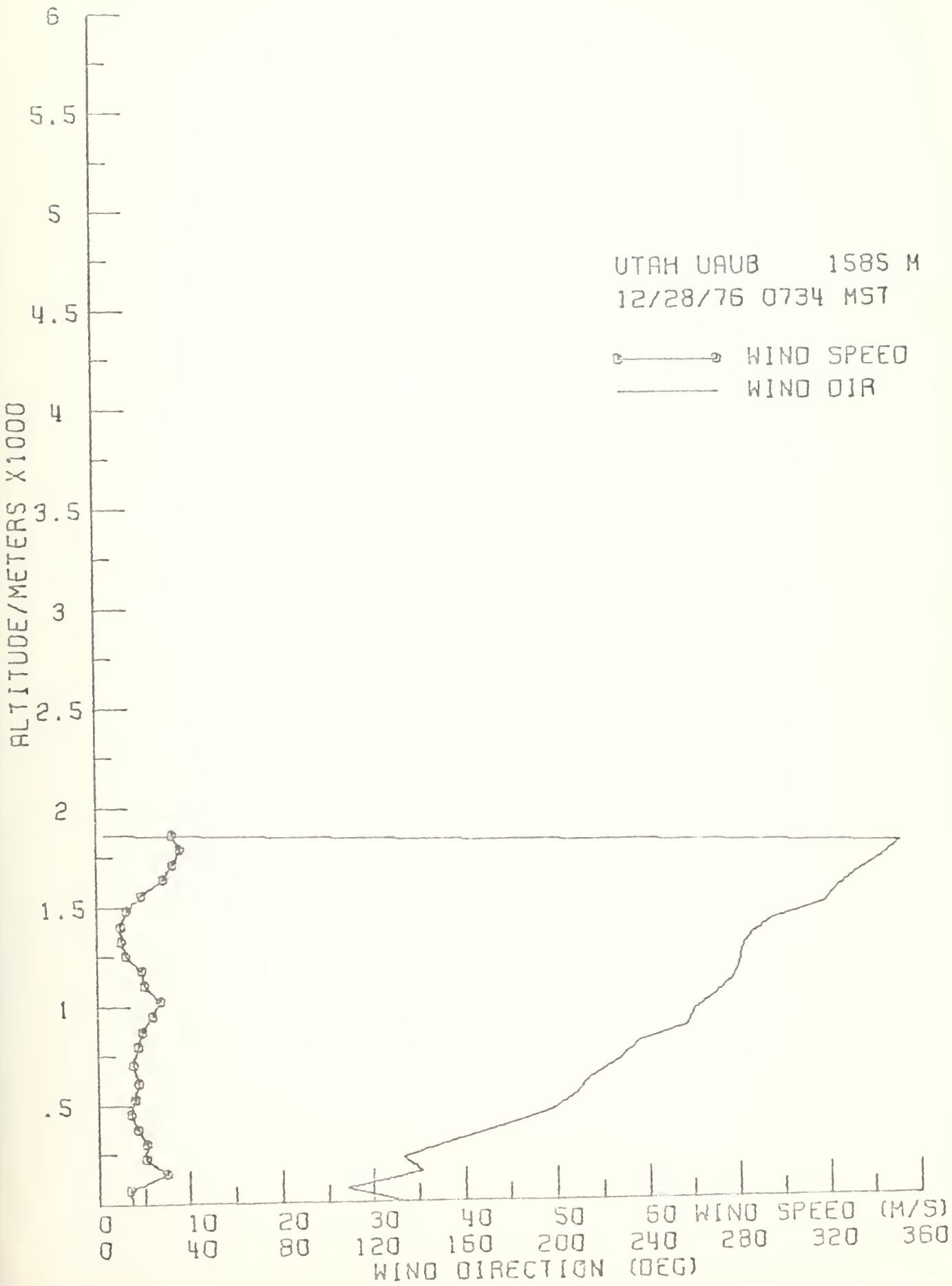

UTAH UAUB 1585 M
12/26/76 0733 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

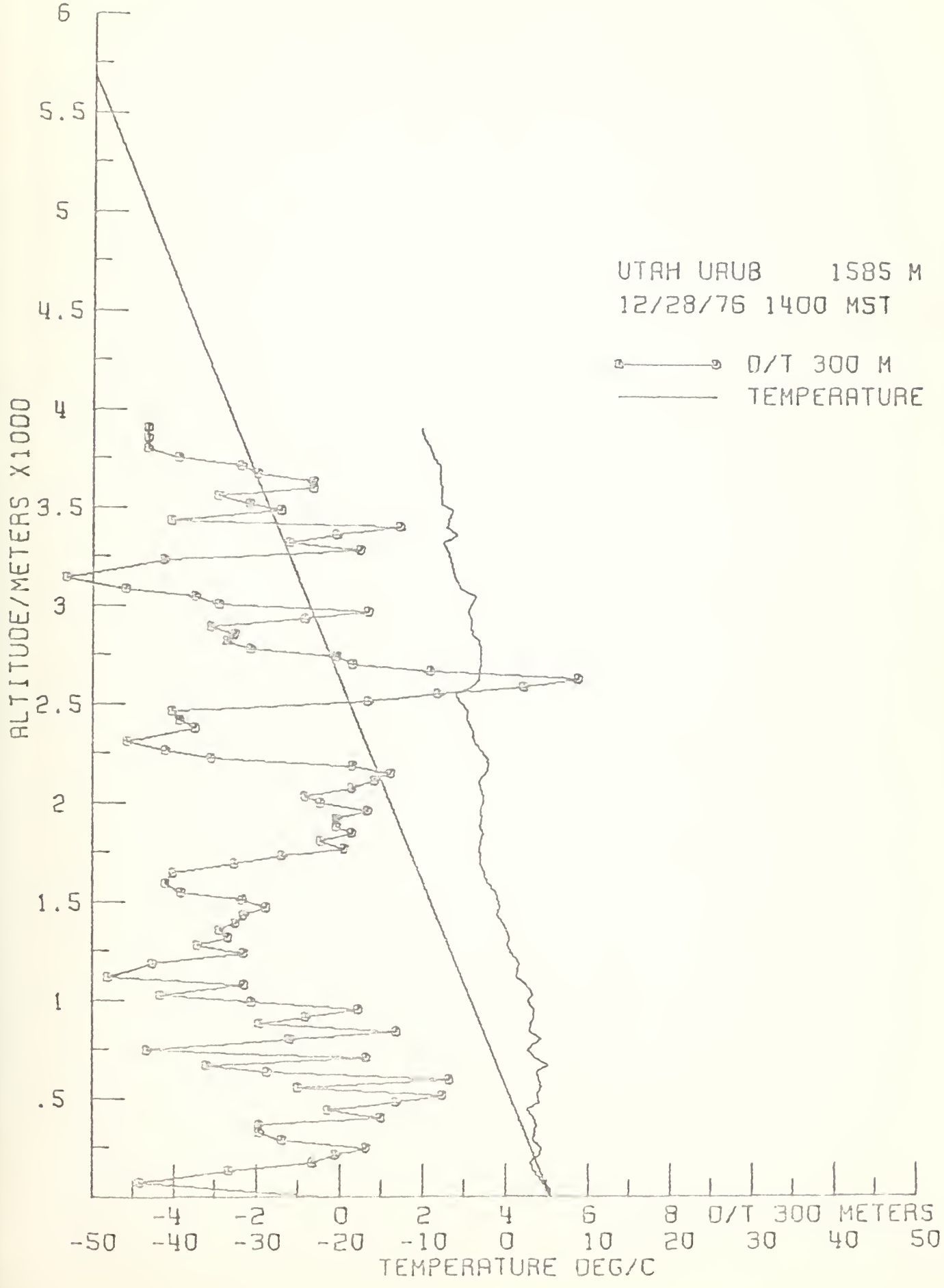

UTAH UAUB 1585 M
12/26/76 0733 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

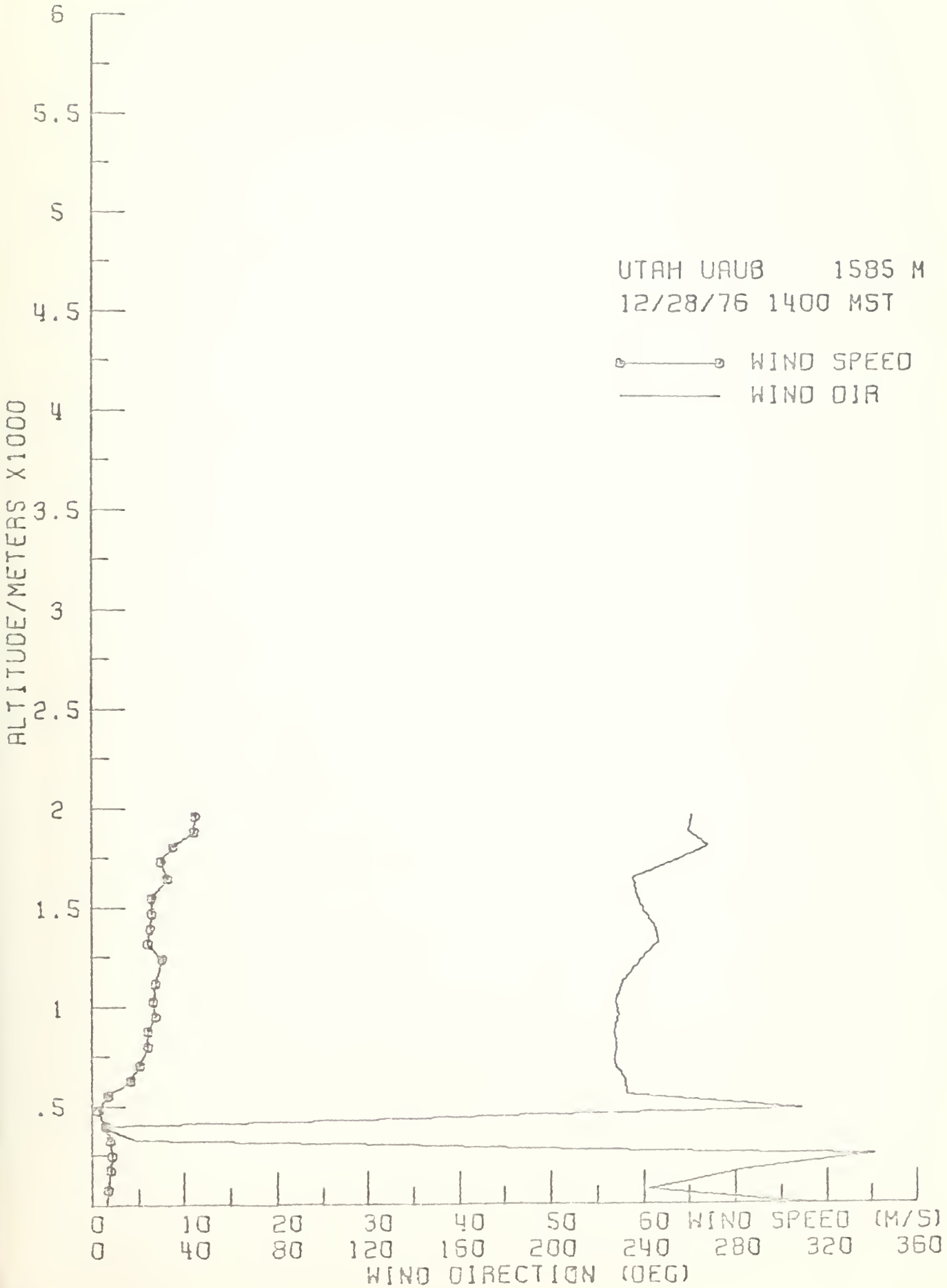

UTAH URUB 1585 M
12/26/76 1351 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

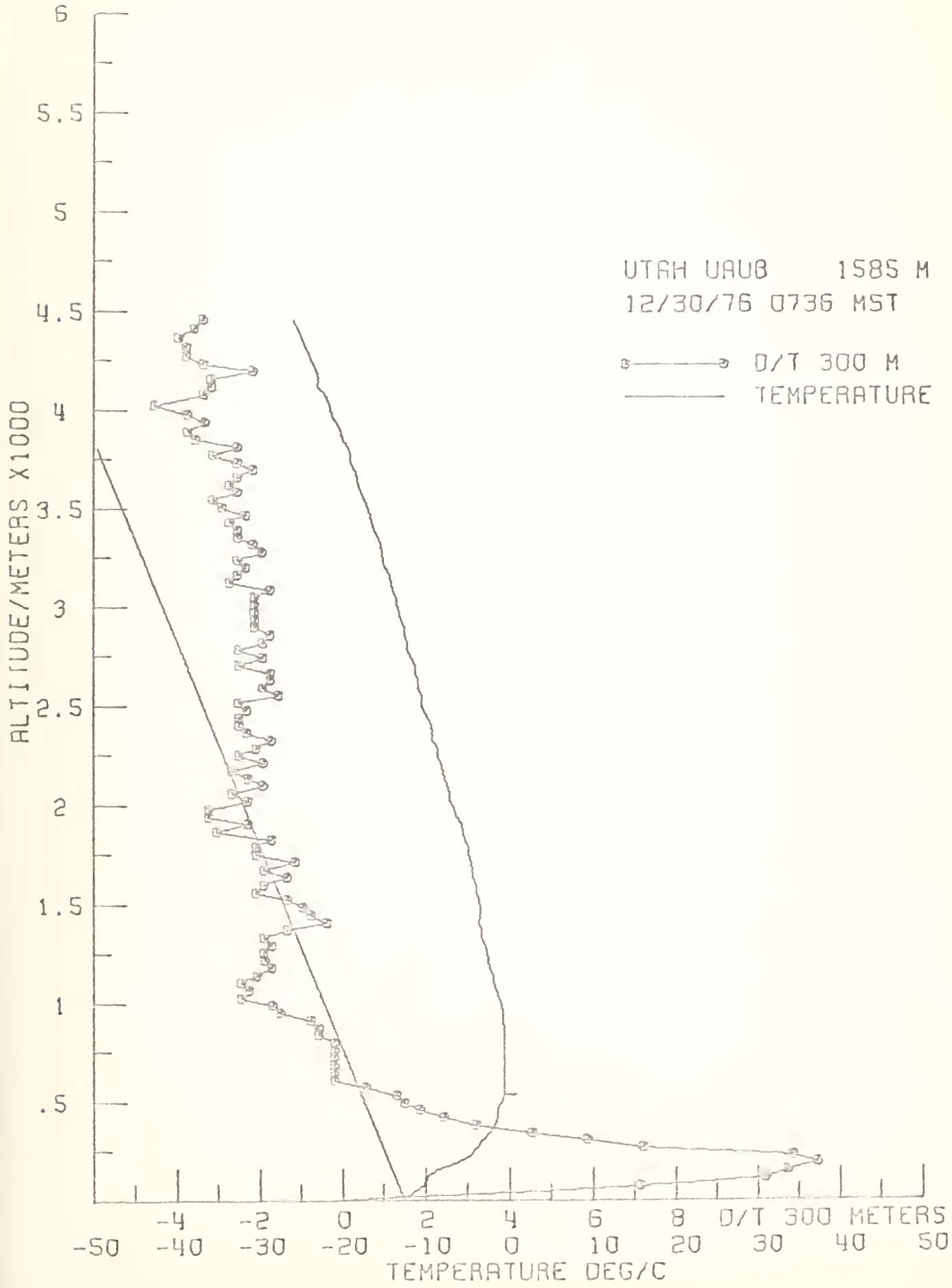

UTAH UAUB 1585 M
12/26/76 1351 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

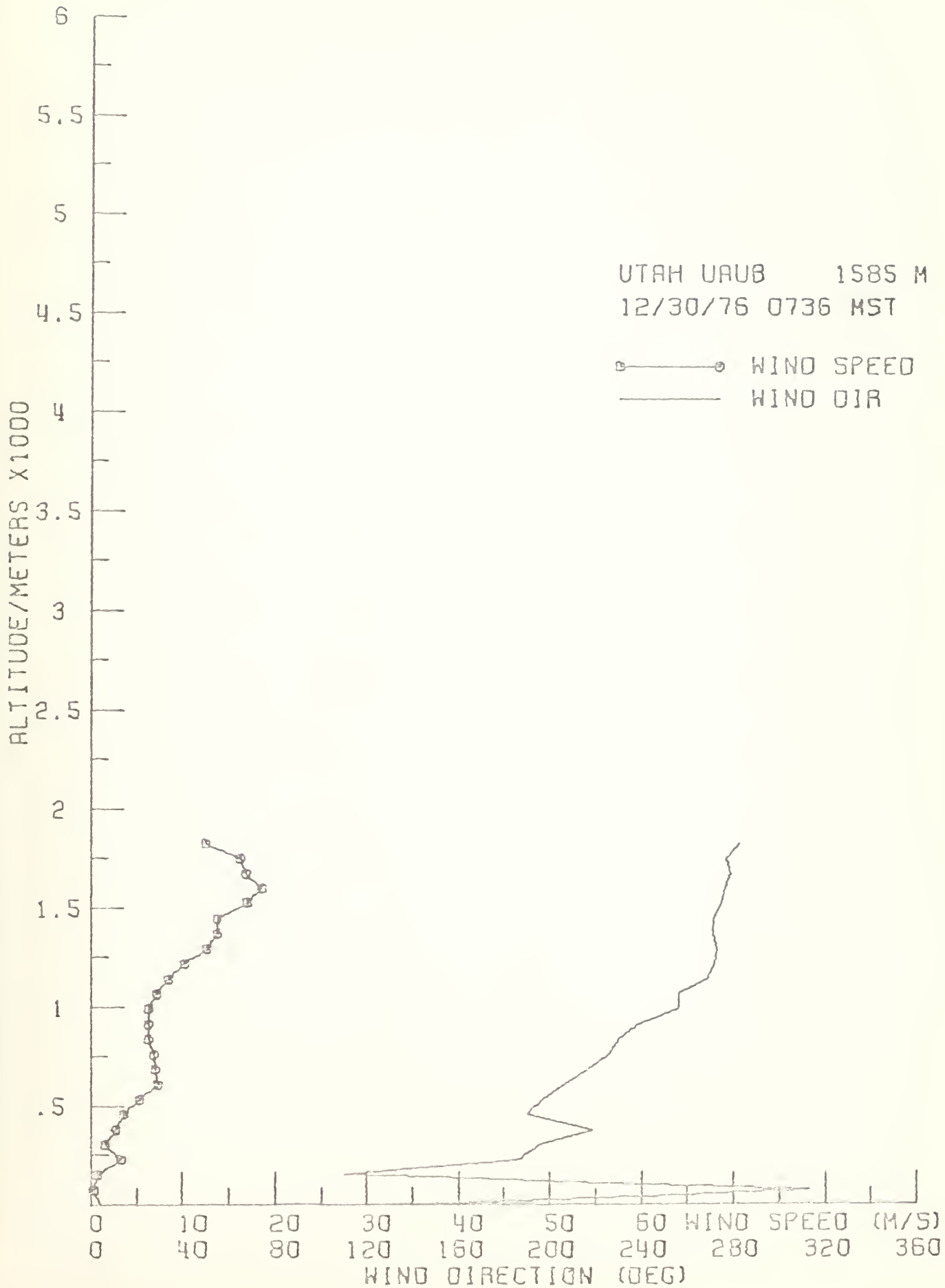

UTAH UAUB 1585 M
12/28/76 0734 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C

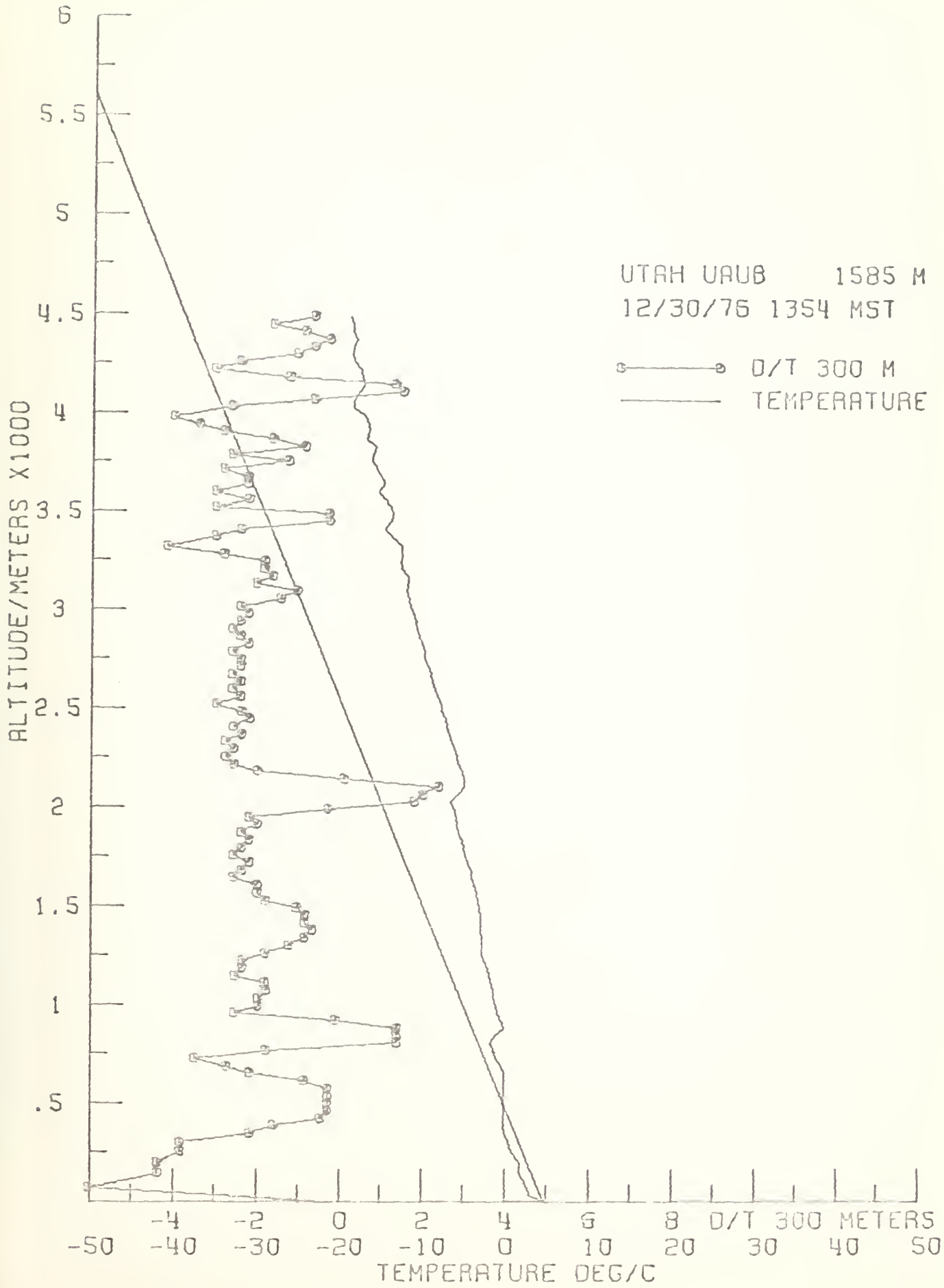

UTAH UAUB 1585 M
12/28/76 0734 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

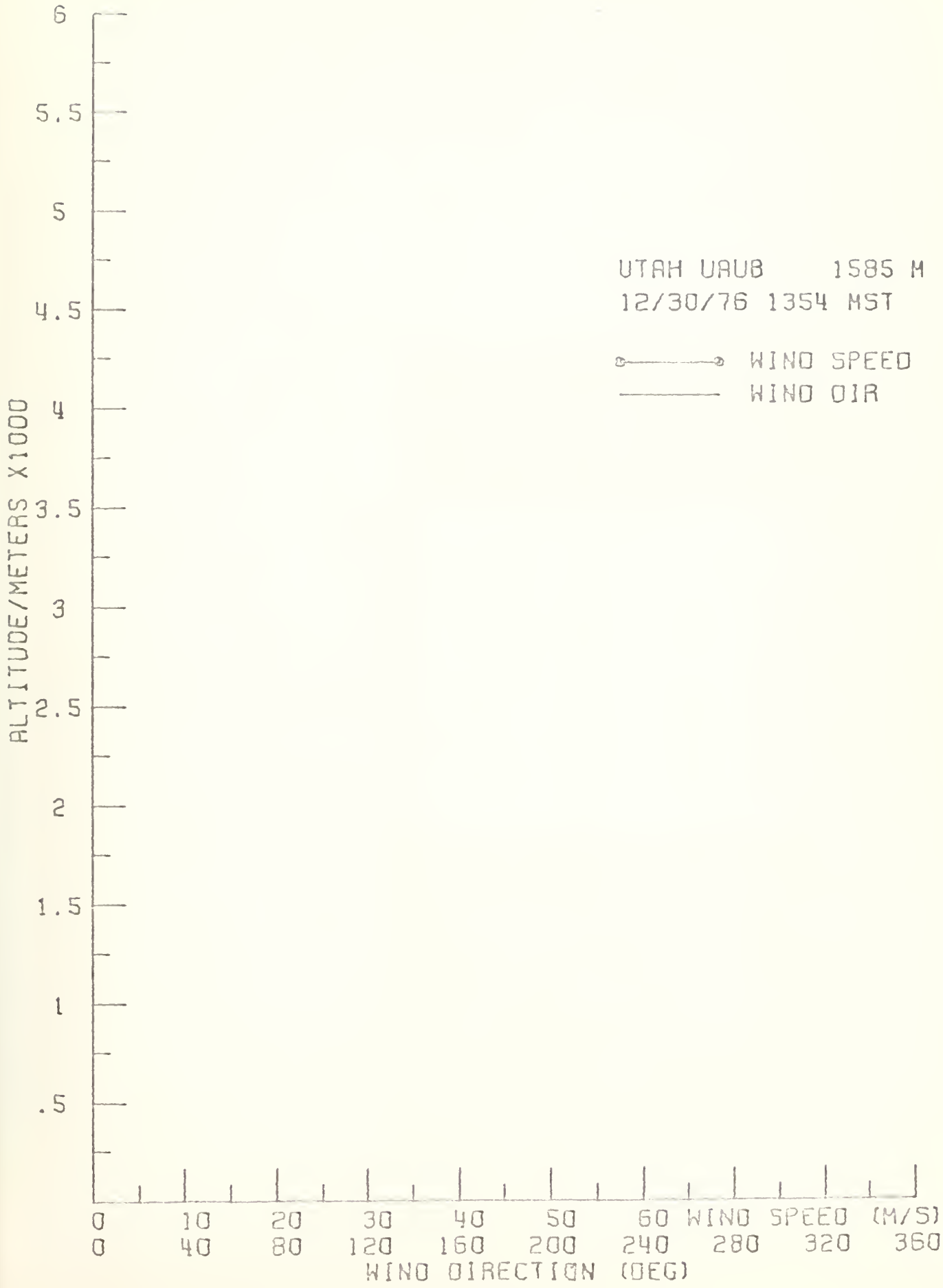

UTAH UAUB 1585 M
12/28/76 1400 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 O/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C


UTAH UAUB 1585 M
12/28/76 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


UTAH UAUB 1585 M
12/30/76 0736 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C


UTAH UAUB 1585 M
12/30/76 0736 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


UTAH UAUB 1585 M
12/30/76 1354 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4 -2 0 2 4 6 8 D/T 300 METERS
-50 -40 -30 -20 -10 0 10 20 30 40 50
TEMPERATURE DEG/C


UTAH UAUB 1585 M
12/30/76 1354 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

Form 1279–3
(June 1984)

BORROWE

DATE LOANED	BORROWER

USDI – BLM